

# **DADDS Website Status TWG Meeting**

Presented by  
**Microcom Design, Inc.**  
April 29<sup>th</sup>, 2024





## Website Status

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- DADDS Website has not been fully updated (ie. new version) in over a two years.
  - Where possible, updates have been made to resolve bugs and implement requests that can be performed without a new deploy.
- Many updates for on-going tasks and IT security requirements are pending.
  - Field Test System Use Agreement
  - Automated Account Review
  - Automated Batch Update
  - Lat/Long TxID
  - Binary Message Data
  - DCPC / 2-Way
- Development system deploy and testing of new features complete.
- In the process of submitting CCR for approval to deploy to production websites





## Field Test System Use Agreement

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- New IT Security requirements dictate that all DCS users must be authorized by a valid System Use Agreement (SUA).
  - Currently, Field Test Users are not required to be authorized by a system use agreement.
- Updates to the website field test feature have been made to incorporate an SUA authorization mechanism.
  - Requiring every field test user to have an individual SUA presents management issues,
  - A 'group' SUA belonging to NOAA, and covering all field test users was created instead.
- Field Test SUA is 'renewed' yearly, requiring field test users to...
  - Accept and agree to abide by the terms of the Field Test SUA
  - Confirm or update their contact information.
- Users will be given 30 days to complete the Field Test SUA 'renewal'.
  - After 30 days, field test accounts that have not completed the process will be disabled.





## Field Test System Use Agreement

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- Process will be seamless to users. When activated, users will be automatically prompted to accept SUA terms and confirm/update contact information.
- Notification emails to DCS community will precede activation of the feature.
- Will present a problem for users employing automation with the Field Test.
  - SUA process will 'break' existing automated systems unable to handle additional steps.
  - Users will be responsible for handling SUA renewal.
  - However, only occurs once an year so manual handling of SUA authorization will be an option.





# Field Test System Use Agreement

## FIELD TEST SUA RENEWAL INSTRUCTIONS

Users with DADDs Website accounts that have been assigned the DCS Field Test user role are now required to abide by a system use agreement (SUA) that must be renewed yearly, along with confirmation the account contact information. Please review and confirm the DCS Field Test system use agreement below to maintain an active field test account. After confirming the agreement, an edit user account dialog will be presented for the user to confirm their account contact information. Once the contact information has been confirmed, the SUA renewal process for the user field test account is complete, and the account will be authorized to use the DADDs website field test feature for a period of 1 year. Failure to agree to the terms of the system use agreement and confirm the account contact information will result in the account being disabled.

## GOES DCS - DADDs Field Test System Use Agreement

### I. Background

The GOES Data Collection System (GOES DCS) is operated by the United States' National Oceanic and Atmospheric Administration (NOAA). The GOES DCS System is managed by NOAA's Office of Satellite Data Processing and Distribution (OSDPD). The system consists of instruments provided by NOAA, which are flown aboard NOAA geostationary satellites, user supplied data collection platforms (DCPs), and NOAA's DCS Advanced Data Dissemination System (DADDs) data and user management system. Users may also receive data directly from the GOES satellite through Direct Readout Ground Systems (DRGS), or from NOAA's rebroadcast of the data through communications satellites or systems. NOAA is authorized to enter this agreement under the authority granted to it in 15 USC 313 and 49 USC 44720.

### II. GOES DCS DADDs Field Test System Use Policy

#### 1. Scope

- a. This policy applies to any person who uses the GOES DCS DADDs Field Test either directly, or through an affiliate or subsidiary.
- b. These policies apply to all existing GOES DCS DADDs Field Test users, as well as all future agreements for the use of GOES DCS DADDs Field Test.

#### 2. Definitions

For the purposes of this agreement and policy:

- a. Approving Authority means NOAA, which is represented by the Director, Office of Satellite Data Processing and Distribution for the GOES DCS DADDs Field Test.
- b. Assistant Administrator means the Assistant Administrator for Satellite and Information Services, NOAA, and his or her designee.
- c. Environmental data means environmental measurement data for the purpose of using the GOES DCS DADDs Field Test.
- d. Environmental measurement data means data that relates to the characteristics of the Earth and its natural phenomena by helping to better understand, evaluate, or monitor its natural resources.
- e. Government interest means that the use is determined in advance to be of interest to one or more governmental entities of the United States, or a state or local government.
- f. Government user means agencies of international governmental organizations, national government, or any subdivision thereof, or any of those agencies' contractors or grantees, so long as the contractor is using the data collected by the GOES DCS DADDs Field Test to fulfill its contractual obligations to the government agency, or in the case of a grantee, that these data are being used in accordance with the statement of work for the award.
- g. Non-profit user means a not-for-profit academic, research, or other non-governmental organization, which is using the data for non-commercial educational and/or scientific purposes.
- h. Operational use means the use of data in a situation where the utility of the data are significantly reduced if not collected or delivered in a specific time window. This includes situations where extensive preparation work is in place, and a delay in the acquisition of data would jeopardize the project.
- i. Sensitive use means the use of the GOES DCS DADDs Field Test where the user requirements dictate the use of a government system, such as national security, homeland security, law enforcement, or humanitarian operations.
- j. Episodic use means the use of the GOES DCS DADDs Field Test for short events where there is a significant possibility of loss of life, such as for Arctic expeditions or scientific campaigns into remote areas.
- k. Testing use means ...
- l. User means the person, entity and/or organization using the GOES DCS DADDs Field Test for the purpose of collecting environmental data received by GOES DCS.
- m. User requirement means the requirement expressed and explained in the GOES DCS DADDs Field Test System Use Agreement.

#### 3. Usage

- a. Use of the GOES DCS DADDs Field Test will only be authorized for the following:
  - 1. In accordance with the conditions and requirements set forth in paragraphs (b) and (c) of this section.
  - 2. Where it is determined that there are no commercial internet based solutions available that meet the user's data reception requirements.
- b. Except as provided below, GOES DCS DADDs Field Test shall only be used for the collection of environmental data by government, educational, and/or non-profit users.
  - 1. Non-government, environmental use of the GOES DCS DADDs Field Test is only authorized where there is a government interest in the collection and/or receipt of the data.
  - 2. Except as provided in paragraph (b)(4) of this section, non-environmental use of the GOES DCS DADDs Field Test is only authorized for government, educational and/or non-profit use where there is a government interest. The GOES DCS DADDs Field Test will continue to be predominantly used for environmental applications. Non-environmental use of the system shall be limited to sensitive use, and to episodic use as defined below in (b)(3) of this section.
  - 3. Episodic use of the GOES DCS DADDs Field Test may also be authorized in specific instances where there is a significant possibility for loss of life. Such use shall be closely monitored.
  - 4. Testing use of the GOES DCS DADDs Field Test will only be authorized for manufacturers of GOES DCS platforms that require access to the system in order to test and certify prototype and production models.
- c. In the event that the GOES DCS DADDs Field Test experiences capacity limitations require that priority determinations be made, applicants will be admitted to use the GOES DCS DADDs Field Test in accordance with the following priority:
  - 1. NOAA programs or users whose data are required for implementation of NOAA programs, as determined by the Assistant Administrator, will be accorded first priority.
  - 2. Users whose data are desired to support NOAA programs will be accorded second priority.
  - 3. Users whose data and/or use of the GOES DCS DADDs Field Test will further a program of an agency or department of the U.S. Government, other than NOAA, will be accorded third priority.
  - 4. Users whose data are required by a state or local government of the United States will be accorded fourth priority.
  - 5. Users whose data involves testing with data from the GOES DCS DADDs Field Test will be accorded fifth priority.
  - 6. No other usage will be authorized for the GOES DCS DADDs Field Test.

#### 4. System Use Agreement

- a. In order to use the GOES DCS DADDs Field Test, each user must accept and abide by the terms put forth by the approving authority in this system use agreement.
- b. This agreement will address, but may not be limited to, the following matters:
  - 1. The extent of the availability of commercial services which meet the user's data requirements, and the reasons for necessitating the use of the GOES DCS DADDs Field Test







## Automated Account Review System

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- New IT Security requirements mandate that all website accounts must now be monitored for inactivity.
  - Accounts that have been inactive for a period of time must be disabled.
- Website has been updated with a mechanism to perform a daily review of all accounts for inactivity.
  - Inactive period before account disable expected to be 1 year.
  - Simple login will satisfy the inactivity requirement for another year.
- Ample notification will be provided to the email address associated with the account prior to deactivation.
  - Daily emails for the 30 days leading up to the account inactivity expiration will be send.
  - Once deactivated, users will still have the ability to reactivate their account.
  - Deletion of the account is not manual, and occurs following manager review.





## Automated Batch Update

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- Longest pending update, caught in limbo for sometime, ready for deploy to production systems.
- Website updated to provide automated batch file updates via an SFTP server.
  - Users required to implement their own automated systems, though an example will be provided.
- Intended for large users/organizations with many platforms and frequent updates.
  - IT Security requirements are stringent!
  - Authorization of automated batch accounts will be performed on a case by case basis, and not all users will be granted access.
  - Simply put, most users have no user for automated batch updates.





## Automated Batch Update

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- Authorized users will be required to perform a separate registration specific to an automated batch processing account.
- When registering for the account, users must provide...
  - The IP address of the client connection performing the automated batch upload vis SFTP.
  - A 2048 bit RSA public key that will be used to authorize the connecting client.
- IP address provided by the user will be individually added to the DCS firewall access list.
  - Dynamic IP addresses cannot be used as a result.
  - Static IP address required. IT security will not update an IP address.
  - New automated batch account is required when an automated client IP address changes.



# Automated Batch Update

AUTOMATED BATCH USER REGISTRATION

OMB # 3333-2255 EXPIRES 12/12/2024

CONTACT INFORMATION

FIRST

MATT

\*

LAST

CEANF

\*

EMAIL

ceanf9@gmail.com

\*

PHONE

123-456-7890

\*

ADDRESS

1234 ADDRESS ROAD

\*

[ ADDRESS LINE 2 ]

CITY

BALTIMORE

\*

COUNTRY

UNITED STATES

\*

STATE

MARYLAND

\*

ZIP CODE

21234

\*

LOGIN INFORMATION

IP ADDRESS

\*

[ IP ADDRESS ]

PUBLIC KEY

\*

[ 2048 BIT RSA PUBLIC KEY ]

GROUP

\*

MRCOM - MICROCOM DESIGN INC

\* INDICATES A REQUIRED FIELD

Submit Registration

NOTICE:

REGISTRATION IS VOLUNTARY. OUTSIDE OF FOIA REQUESTS, INFORMATION IS NOT DISCLOSED.





## Lat/Long TxID

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- Updates to the website platform dialog and messages grid have been made as part of Lat/Long TxID task.
- Platform dialog now allows entry of latitude and longitude in DMS and Degree Decimal format.
  - Converts between the two formats when entering information.
- Message grid updated to include latitude and longitude of platform sending a DCS message.
  - Information is pulled from the database PDT record.
- Real-time DADDS updated to flow PDT updates caused by TxID messages back to Archive servers for website use.
  - Currently management data for platforms only flows from DADDS archive to real-time.



# Lat/Long TxID



FIELD TEST USER SUA NAME - SUA PENDING RENEWAL

CHANNEL STATS PROCESS STATS MESSAGES COMMANDS PLATFORMS CHANNELS RADIOS GROUPS DRO SUAS USERS AUDITS

NETLISTS & FILTERS DEFAULT FILTER

	ADDRESS	GROUP	LAT	LONG	CHAN	BAUD	SIGNAL	NOISE	QUALITY	FREQ	CAR TIME	END TIME	TIME	ARM	SCID
▶	DDA08B4	USGS01	41.7936	-73.9425	167	300	35.2	3.2	100.0	-20.5	25/90 17:47:41.293	25/90 17:47:43.170	1.877	G	17
▶	33A10EC6	NOANOS	-----	-----	69	300	38.6	2.7	99.5	-2.8	25/90 17:47:36.307	25/90 17:47:38.247	1.940	G	17
▶	CE5ED42	CEWVK1	31.4250	-91.6267	73	300	36.3	3.6	99.0	-0.8	25/90 17:47:34.940	25/90 17:47:36.283	1.342	G	17
▶	16D10348	USGS01	34.5069	-99.2078	77	300	40.2	2.2	100.0	-2.6	25/90 17:47:30.290	25/90 17:47:32.217	1.925	G	17
▶	33476086	NOANOS	29.1783	-90.7417	65	300	32.7	4.1	96.1	2.7	25/90 17:47:24.327	25/90 17:47:27.743	3.414	G	17
▶	16D0F136	USGS01	30.6392	-88.3931	77	300	35.0	3.7	98.5	-1.1	25/90 17:47:24.297	25/90 17:47:25.897	1.603	N	17
▶	DE16379C	USGS01	18.2989	-65.6950	35	300	31.4	4.7	92.5	-2.5	25/90 17:47:20.297	25/90 17:47:23.317	3.018	G	17
▶	A120E44	UNIVNY	-----	-----	57	300	34.0	5.4	88.7	-10.4	25/73 20:32:10.427	25/73 20:32:19.477	9.048	N	16
▶	5621119E	CHLDON	-----	-119.3564	15	300	38.4	5.1	88.9	-3.1	25/73 20:32:15.300	25/73 20:32:18.437	3.136	G	17
▶	A4F00CFC	PRSN01	-----	-112.7211	147	300	30.5	4.4	94.8	-2.8	25/90 17:47:40.287	25/90 17:47:43.447	3.158	N	17
▶	943D36E8	EPMMED	-----	-75.2558	103	300	39.5	3.5	99.0	-2.6	25/73 20:32:10.303	25/73 20:32:17.887	7.584	G	16
▶	CC50C0CA	CVCCSA	-----	-117.1564	205	300	30.9	4.9	90.3	-2.0	25/90 17:47:40.280	25/90 17:47:42.643	2.364	G	17
▶	DD6A17A6	USGS01	36.1831	-86.8322	163	300	39.2	2.2	100.0	-2.2	25/90 17:47:30.320	25/90 17:47:40.300	9.979	G	17
▶	DD6A17A6	USGS01	36.1831	-86.8322	163	300	39.2	2.2	100.0	-2.2	25/90 17:47:30.320	25/90 17:47:40.300	9.979	T	17
▶	1730607C	USGS01	32.8978	-96.2531	83	300	33.8	3.4	99.3	-2.8	25/90 17:47:40.303	25/90 17:47:41.897	1.595	G	17
▶	33478344	NOANOS	26.6117	-----	65	300	34.5	3.2	99.1	-1.5	25/90 17:47:36.297	25/90 17:47:40.037	3.743	G	17
▶	A4F00CFC	PRSN01	-----	-112.7211	147	300	30.5	4.4	94.8	-2.8	25/90 17:47:40.287	25/90 17:47:43.447	3.158	G	17
▶	166A27C4	USGS01	40.2522	-83.7497	87	300	37.6	2.8	99.5	-0.2	25/90 17:47:33.300	25/90 17:47:36.473	3.174	G	17
▶	DF122EAB	USGS01	40.3656	-80.7847	41	300	39.7	2.4	100.0	-2.0	25/90 17:47:33.277	25/90 17:47:36.470	3.194	N	17
▶	33A10014	NOANOS	-----	-93.6947	69	300	41.9	2.1	100.0	-2.2	25/90 17:47:30.303	25/90 17:47:33.927	3.626	G	17

1 2 3 4 5 6 7 8 9 10 ... PAGE 1 OF 23927 PAGE SIZE: 20

## UPDATE PLATFORM - 7710061A

GENERAL DETAILS SHEF CODES CONTACT AUDIT SAVE CANCEL

### PLATFORM DETAILS

COUNTRY	UNITED STATES	LATITUDE	DMS	391728	DECIMAL	39.2905
STATE/PROV	MARYLAND	LONGITUDE	-763837	-76.6104		
LOCATION	MICROCOM TEST 300					
RADIO	MICROCOM - GTX-2.0	ASSIGN	10/25/2002			
CATEGORY	OTHER	DEPLOY	01/02/2008			
NWS	NO	RE-DEPLOY	03/04/2009			
SEASONAL	NO					

LAST UPDATE ON 04/26/2025 BY CEANFAGLIONE, MATTHEW1



Microcom Design, Inc.





## Binary Message Data

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- Updates to the platform dialog and message grid have been performed to support the binary message data task.
- Platform dialog updated with controls to allow users to define a message data format for their platforms.
  - ASCII
  - Pseudo-Binary
  - Binary (Full & Compacted)
- Messages grid updated with field to display a message's data type when received via a data type character.



FIELD TEST USER SUA NAME - SUA PENDING RENEWAL

WELCOME, MATTHEW1 CEANFAGLIONE ▾

UPDATE PLATFORM - 7710061A

GENERAL

DETAILS

SHEF CODES

CONTACT

AUDIT

SAVE

CANCEL

PLATFORMS GENERAL

DCP ADDRESS

7710061A

DCS GROUP

[ MCRCOM ] - MICROCOM DESIGN INC

PRIME CHANNEL

195

SELF-TIMED

300

SECOND CHANNEL

495

RANDOM

300

FIRST

00:00:00

PERIOD

00:00:00

WINDOW

00:00:00

DATA FORMAT

PSEUDO

RANDOM INTERVAL

[ SELECT... ]

2-WAY EQUIPPED

100BPS

LAST UPDATE ON 04/20/2025 10:05:00 AM

BY JONES, MATTHEW1

[ SELECT... ]

100BPS

ASCII

BINARY

COMPACT-PB

FULL-C

NUMERIC-C

PSEUDO

SHEF-C

UNKNOWN





## DCPC 2-Way

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- Updates to the platform dialog have been made to support 2-way functionality.
- Users will be able to 'enable' their platforms for 2-way reception once they have a 2-way receiver.
- Controls for managers allow the assignment of 2-way command addresses for the 2-way receivers.
- Messages grid has been updated to identify 2-way command acknowledgements.
- A new tab/grid has been created to display commands scheduled for transmission
  - Allows users and managers to view the status of 2-way commands.



- Updates to the DADDS real-time have been made to resolve HRIT duplicate filename bug and connectivity issues.
  - Testing and system monitoring confirmed that duplicate filename bug has been resolved in latest DADDS release (v3.17).
  - Disconnect problems have not been observed since the deploy of the new DADDS version, resulting in a much more stable HRIT feed.
- Updates also include latency monitoring functionality, though it has not been enabled yet.



QUESTIONS? COMMENTS?