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GIOD Global Unique Device Identification Database

HL7 SPL Submission Option

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Learning Objectives

- Obtain an overview of the GUDID HL7 SPL Submission option
- Understand the required testing and process steps
- Learn about the FDA Electronic Submissions Gateway (ESG)
- Identify and understand the three acknowledgements you'll receive
- Learn key pointers regarding editing GUDID HL7 SPL submissions
- Understand who and when to contact for help



GUDID HL7 SPL Submission Option

Definitions: HL7 = Health Level 7 SPL = Structured Product Labeling

- Submission of medical device information as HL7 SPL XML message file
 - One DI record per XML file
- Technical specifications available on the UDI website





GUDID HL7 SPL Submission Option

- HL7 SPL XML submissions sent via the FDA Electronic Submissions Gateway (ESG)
- Testing required prior to production submission
- Suitable for labelers with large volume of submissions



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FDA Electronic Submissions Gateway

 Enables secure receipt and authentication of FDA electronic regulatory submissions

- Routes submissions to the appropriate Center
 - Only one ESG account is needed for all submissions to all Centers



FDA Electronic Submissions Gateway



FDA Electronic Submissions Gateway

- Two Options for submission
 - WebTrader use for Low Volume
 - AS2 use for High Volume
- If you choose **WebTrader**:
 - use GUDID Web Interface, instead of HL7 SPL submissions
- GUDID does not use eSubmitter tool used for CDRH eMDR submissions



FDA Electronic Submissions Gateway



FDA Electronic Submissions Gateway

- Acknowledgements for each stage of report transmission
- www.fda.gov/esg
- Note Proper Codes
 - Center = CDRH
 - Submission Type = GUDID



FDA Electronic Submissions Gateway



Acknowledgements (Ack)

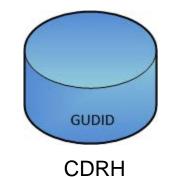
Center = CDRH





ESG



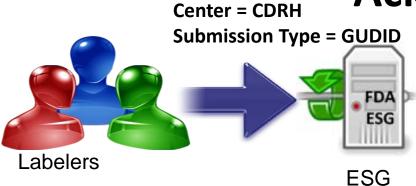


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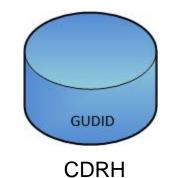


U.S. Food and Drug Administration Protecting and Promoting Public Health

Acknowledgements (Ack)

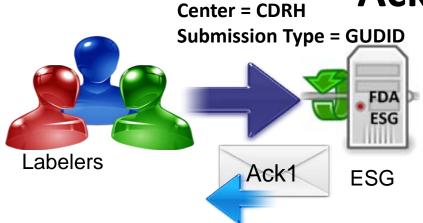




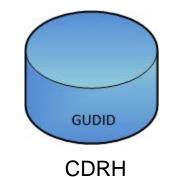




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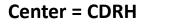


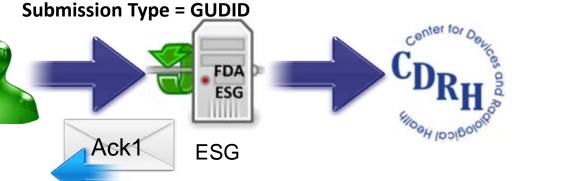


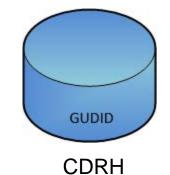
Labelers

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Acknowledgements (Ack)

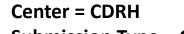


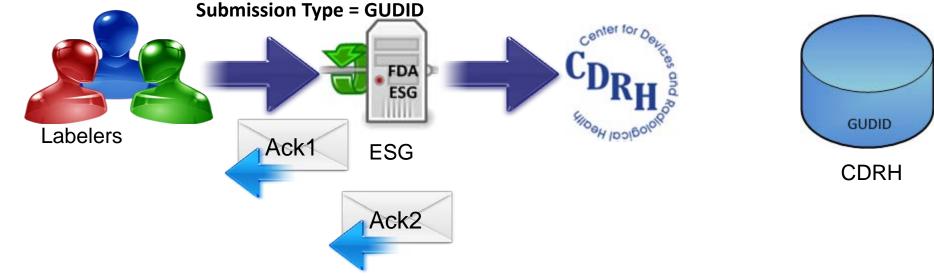




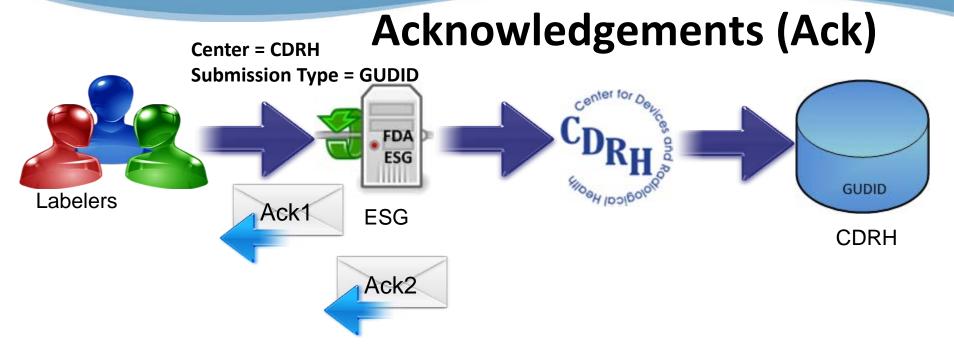




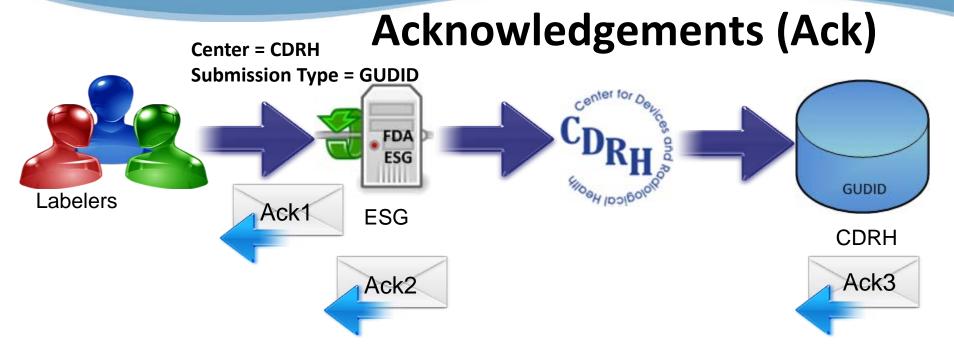




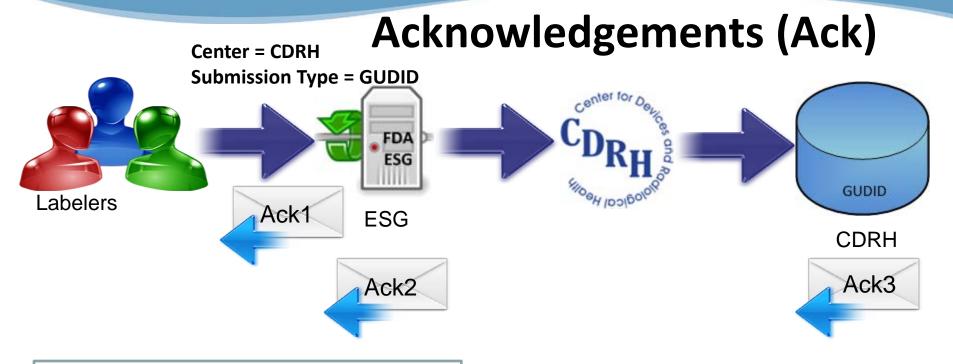






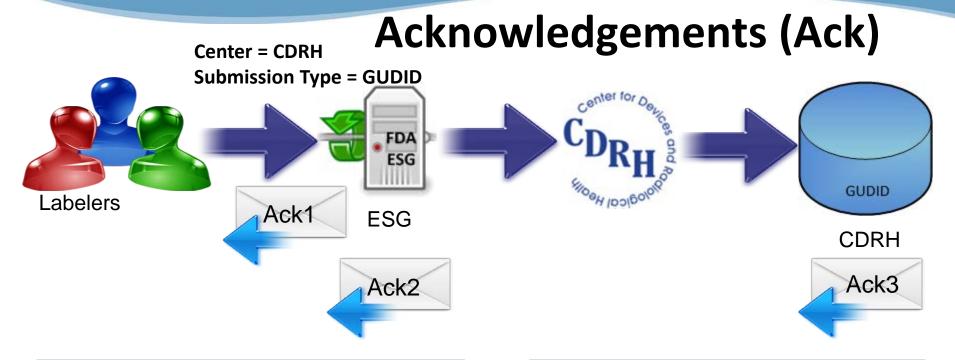






for Ack1 and Ack2 Issues: contact **FDA ESG Help Desk**, <u>esghelpdesk@fda.hhs.gov</u>





for Ack1 and Ack2 Issues: contact **FDA ESG Help Desk**, <u>esghelpdesk@fda.hhs.gov</u> for Ack3 Issues: contact FDA UDI Help Desk, gudidsupport@fda.hhs.gov



Ack1/Receipt/MDN

This MDN (Message Disposition Notification) was automatically built on <u>Tue. 25 Mar 2014 23:36:26 GMT in response</u> to a <u>message with id <20425118.41395790583689</u> JavaMail.John.ADAMS@ABC1234567> received from ZZFDATST on Tue, 25 Mar 2014 23:36:25 GMT. Unless stated otherwise, the message to which this MDN applies was successfully processed.



Acknowledgement Types: Ack1, Ack2

Ack1/Receipt/MDN

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Ack2

MessageId:<20425118.41395790583689 JavaMail.John.ADAMS@ABC1234567>

CoreId: ci1395790584826.2538@fdsul05622_te2

```
DateTime Receipt Generated: 03-25-2014, 19:36:52
File Count: 1Directory Count: 2
```

CDRH has received your submission



Acknowledgement Types: Ack1, Ack2

Ack1/Receipt/MDN

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Ack2

MessageId:<20425118.41395790583689 JavaMail.John.ADAMS@ABC1234567>					
CoreId: ci1395790584826.2538@fdsul05622_te2					
DateTime Receipt Generated: 03-25-2014, 19:36:52 File Count: 1Directory Count: 2					
CDRH has received your submission					

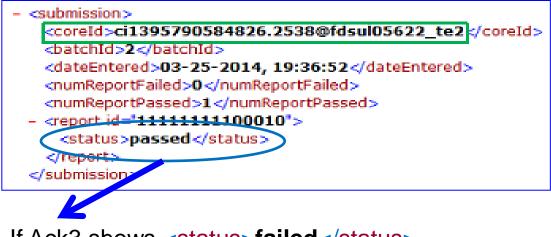


Ack3

 <submission></submission>
<coreid>ci1395790584826.2538@fdsul05622_te2 </coreid>
<batchid>2</batchid>
<pre><dateentered>03-25-2014, 19:36:52</dateentered></pre>
<numreportfailed>0</numreportfailed>
<numreportpassed>1</numreportpassed>
- <report id="1111111100010"></report>
<status>passed</status>



Ack3



If Ack3 shows <status>failed</status>

<html><body>Unidentified or unparseable submission type [CoreID]/body></html>*



Ack3

<pre><coreid>ci1395790584826.25380</coreid></pre> datchId>2		
<dateentered>03-25-2014, 19:36</dateentered>	the second se	
<numreportfailed>0<th></th><th></th></numreportfailed>		
<pre><numreportpassed>1</numreportpassed></pre>	asseu>	
<status>passed</status>	Unidentified : we d	to not know where to route it
submission:	Unparseable: fails validation against the schema	
		U

<html><body>Unidentified or unparseable submission type [CoreID]/body></html>*



Acknowledgements (Ack)



Ack1/2 Issues

- esghelpdesk@fda.hhs.gov
- Ack1 Provide info
- Ack2 Provide messageID

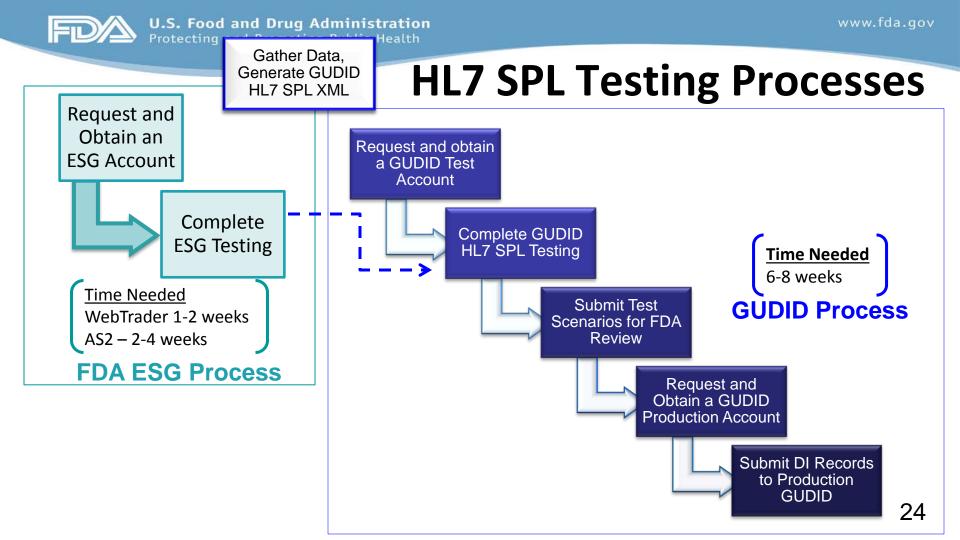
Ack3 Issues

• gudidsupport@fda.hhs.gov

Global Unique Device Identification Database

• Provide coreID

Contact appropriate Helpdesk regarding issues prior to retransmitting

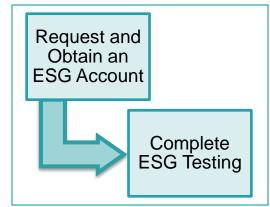




ESG Testing Process

• Request and Obtain a test ESG account

- Obtain a digital certificate
- Send letter of non-repudiation
- Complete ESG testing
 - Connectivity test
 - Load test
- Allocate 2-4 weeks for the above
- May Use Existing ESG test accounts
- For all GUDID submissions, be sure to specify:
 - Center = CDRH
 - Submission Type = GUDID





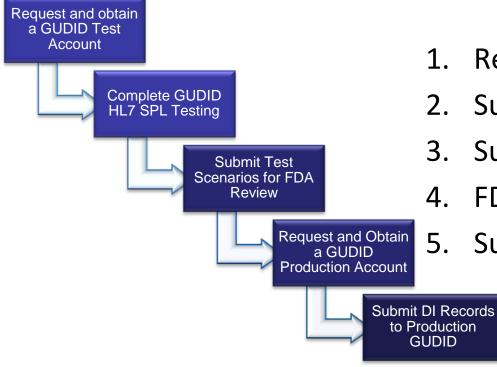
Generate XML Files

• Build and generate GUDID HL7 SPL XML files

- One file for each DI record
- Validate files against the GUDID schema
- Unparseable error
 - Most common error during GUDID testing from users
 - Validating files against the GUDID schema will save you time



GUDID Testing Process

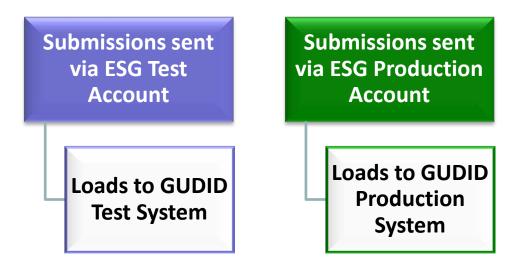


- 1. Request a GUDID test account
- 2. Submit XML files with test scenarios
- 3. Submit test results to UDI Helpdesk
- 4. FDA reviews and provides feedback
- 5. Submit to Production



ESG and GUDID

- ESG serves the entire FDA (all FDA Centers and Programs)
- ESG and GUDID have Test and Production areas





Labelers Using Third-Party Submitters

- Provide Third-Party information during GUDID account request
 - If third party is not associated to labeler's GUDID account, submission from third party will be rejected

• Third Parties may:

- Provide software solution/tool to labeler to generate HL7 SPL XML files, and then labeler sends submission via ESG
 - Labeler obtains ESG account
- Provide end-to-end solution: use labeler data to generate GUDID HL7
 SPL XML files AND send submissions via ESG on behalf of labeler
 - Third-party has the ESG account



Labelers and Third-Party Submitters

- Labelers who intend to use the HL7 SPL submission option:
 - must complete GUDID testing
 - even if using a third-party submitter
- Labelers are responsible for fulfilling GUDID submission requirements:
 - Ensure submissions received and processed by FDA.
 - Login to GUDID and review your submissions
 - Report within the required timeframe
 - Maintain proper record keeping



Third-Party Solution Providers

- May test GUDID HL7 SPL submission solution independently of Labelers
 - Request a GUDID test Account: indicate it is for HL7 SPL testing
 - Dummy data for certain required attributes provided for testing purposes ONLY, upon request
 - GUDID Web Interface and Production Accounts NOT provided

• Must complete GUDID HL7 SPL testing with each labeler

Labelers must establish their own separate test GUDID account



- Read FDA Guidance on GUDID
 - www.fda.gov/downloads/MedicalDevices/DeviceRegulationandGuidance/ GuidanceDocuments/UCM369248.pdf
- Allow adequate time for testing ESG and GUDID
- GUDID testing completion criteria is the bare minimum
 - Do thorough internal testing to ensure the scenarios appropriate for your products are accounted for

- Validate submissions against the GUDID HL7 SPL schema
- Do not submit sample message in the HL7 SPL implementation package as a test submission it is not validated
- Specify Proper Fields
 - Center = CDRH
 - Submission Type = GUDID



- Submission folder structure must be followed
 - Top level folder must be uniquely named
 - Lower level folder must always be named "spl"; only 1 "spl" folder
 - GUDID HL7 SPL xml submission file must be named "submission.xml"
 - Do not include any other files in the "spl" folder
- Only one submission (one DI record) in each folder structure



- Draft DI record state not available in HL7 SPL submission option
- Records can be submitted as
 - Unpublished = DI Record Publish Date is in the future
 - Published = DI Record Publish Date is today
 - Review your submission via the Web Interface
 - Login as a Labeler Data Entry (LDE) user
 - Labeler DUNS number for that DI record should be assigned to you

Device Identifier Record History				
Last Modified Date	Time	DI #	Modified By	
Mar 21, 2014	5:03 PM	10020030050373	SPL USER	



Data Quality

• Before you move to production

- Complete adequate internal testing
- Verify test records are loaded correctly to GUDID by logging in

• After you move to production

- Continue to monitor, review and correct records during grace period
- Review information during Grace Period and make edits as needed
- Use "export" feature to export all records in GUDID as XML files
- Remember records go to AccessGUDID after Grace Period



Data Quality

- Labeler is ultimately responsible for information submitted to GUDID
 - it does not matter if third party generates or submits



Editing HL7 SPL Submissions

- Submit the entire DI record, i.e., include changed and unchanged attributes
 - DI record will be over-written with the most recent file
 - document.setID links all related submissions
 - document.versionNumber tracks versions; increment by 1 for each edit, even for failed submissions
 - First time submission, **versionNumber** = 1, Ack3 = Fail
 - Increment versionNumber = 2 before resubmitting



Editing DI Records

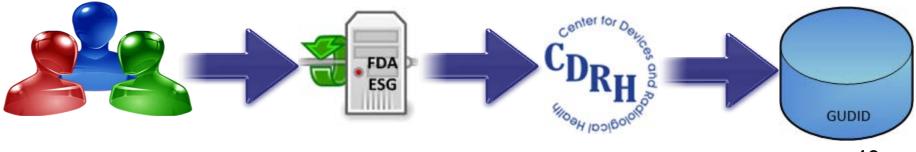
- DI Records submitted using Web Interface
 - Draft, Unpublished, Published during Grace Period → must edit via <u>Web</u>
 <u>Interface</u>
 - Published and past Grace Period → may edit via Web Interface or HL7 SPL

- DI Records submitted using HL7 SPL
 - Any state, any time → may edit via Web Interface or HL7 SPL



Submitting Batches in Production

- Start submissions in small batches and slowly ramp up
- Limit submissions to no more than 500 at one time
- If you do not receive Acknowledgements, do not automatically "resend", contact us first





GUDID System Status

Scheduled Downtimes

- will be posted on www.fda.gov/udi
- look for <u>GUDID System Status</u>

• Unscheduled Downtimes

- o visit <u>www.fda.gov/udi</u> for information
- o if no information, report issue via Help Desk

• Subscribe to GUDID Email Alerts



Summary

- Understand the HL7 SPL Submission Process
- Understand the Testing Requirements for ESG and GUDID
- Understand the edit rules to manage your records correctly and accurately
- Understand whom to contact and when for help



Providing Industry Education

1. CDRH Learn – Multi-Media Industry Education

- over 80 modules videos, audio recordings, power point presentations, software-based "how to" modules
- accessible on your portable devices: <u>http://www.fda.gov/Training/CDRHLearn</u>

2. Device Advice – Text-Based Education

 comprehensive regulatory information on premarket and postmarket topics: <u>http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance</u>

3. Division of Industry and Consumer Education (DICE)

- If you have a question Email: <u>DICE@fda.hhs.gov</u>
- Phone: 1(800) 638-2041 or (301) 796-7100 (Live Agents 9am 12:30 pm; 1-4:30 pm EST)
- Web Homepage: <u>http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/ContactUs--</u> <u>DivisionofIndustryandConsumerEducation/default.htm</u>