

NAVFAC

Naval Facilities Engineering Systems Command

NAVFAC SOUTHEAST

NAVFAC SE Industry Forum

“Electronic Construction Management System (eCMS)”

22 March 2023

What is eCMS?



- **eCMS is a Commercial Off-The-Shelf (COTS) web based construction management system**

- Software vendor was CMiC. NAVFAC version called eCMS.
- Has been configured by NAVFAC for NAVFAC since 2018
 - Not a NAVFAC product.
- eCMS is hosted at NAVFAC/NITC in California on 10 Government owned servers and used across the Globe at all NAVFAC hosted activities.
- Currently used for DB/DBB Construction Projects >\$250k
- Required by Contract/Specification 01 31 23.13 20.

What is eCMS?



- **Currently hosting 13,000 users, and over 2,400 active projects.**
 - 60% users are contractors, 40% NAVFAC or other DOD.
 - Currently using V13.2, planned upgrade to V15.2 in the cloud next month.
 - Requires good internet connection/speeds outlined in specs.
 - Use FireFox or Google Chrome browsers for best performance.

- **NAVFAC-SE POC: PDC5 Sr. CM, Mike Guarino**

- michael.j.guarino2.civ@us.navy.mil
- Provides Assistance to Construction Managers, A/E's and Contractors
- Provides Individual and MSTEAMs training weekly
 - Basic: Tuesday at 10am
 - Advanced: Tuesday at 2pm
- Provides group hands-on-training for full project team
 - Coordinate through CM/COR for setting up this training



Email Mike for
access to these
offerings

- **eCMS external Information Page:**
 - **<https://www.navfac.navy.mil/Business-Lines/Design-and-Construction/About-Us/Design-and-Construction-Documents>**
 - **On this page you find the following eCMS Info:**
 - Training Videos/Slides
 - User Manuals
 - General information

Website Topics



About Us ▾ Directorates Business Lines ▾ NAVFAC Worldwide ▾ Media Careers ▾ Workload Projections Locations Employees 🔍

Business Lines ▸ Design and Construction ▸ About Us ▸ **Design and Construction Documents**

NAVFAC PARTNERING INSTRUCTION (26 OCTOBER 2020)

PDF Download Link: [click here to download the PDF file](#)

ECMS DOCUMENTATION

[eCMS Government User Manual](#)

[eCMS Contractor Manual](#)

CONTRACTOR TRAINING VIDEOS

- [Link for Contractor Videos](#)

GENERAL TRAINING VIDEOS

- [Link for General Training Videos](#)

REVIEWER TRAINING VIDEOS (A/E, DESIGN MANAGER, ET)

- [Link for Reviewer Videos](#)

ARCHIVED TRAINING DOCUMENTS

[eCMS Processes -- Contractors -- Updated August 2019](#)

[eCMS Processes - NAVFAC Users - Updated August 2019](#)

[Dashboard Basics](#)

Contractor Training Videos



NAVFAC Training Videos

Play

Submittal Detail Notes Related Objects Attachments History

CC20UA-00096

Name Submittal

Type Submittal Testing
submittal 1

GOV Disposition Test Submittal

Procurement Item

Description

Spec Section

Package No.

Spec Sub Section

Sort Order

KTR VIDEOS

Submittal Variation No

1 MIN Submittal Creation

1 MIN Adding Notes to Submittal

2 MIN Submittal Import Preparation

2 MIN Importing

The main screenshot shows the NAVFAC Enterprise web application interface. At the top, there's a browser address bar and a search bar. Below that, the title "NAVFAC Training Videos" is centered. A yellow "Play" button is positioned above the submittal details. The details for submittal "CC20UA-00096" are shown in a form with fields for Name, Type, GOV Disposition, Description, Spec Section, Package No., Spec Sub Section, and Sort Order. Below the details, there's a section for "KTR VIDEOS" with four thumbnails. Each thumbnail shows a different part of the system: "Submittal Creation" (1 MIN), "Adding Notes to Submittal" (1 MIN), "Submittal Import Preparation" (2 MIN), and "Importing" (2 MIN). The thumbnails are arranged in a row, with the first two on the left and the last two on the right.

eCMS Information Security



- **Information Security**

- No Protected Personal Information (PPI)
- No Confidential Contract Proposal/Cost data
- Only Publicly available Contract Award and Modification docs
- Only for Contracting Officer Representative Technical Files i.e.
 - Communications/Meetings
 - Submittals/RFI
 - Daily Reports/Testing/Inspections
 - Quality assurance information

eCMS Information Security



•System Security

- CM/COR must request/authorize new users via NITC
- Contractors can only view Projects/Contracts they are assigned to in the system by the CM/COR.
- Secure System Log in userID and password.
- Password expires after 45 days gap between logins
- CM/COR must inactivate a user when removed from the project.
- Ability to use CAC in the near future.

eCMS Near Future



▪ Deploying V15.2 in April 2023 in the Cloud

- Increased speed and access for contractors (more stability/reliability)
- eCMS and eContracts data will be linked to auto-enroll projects and incorporate financial and contract data for KPI (key performance Indicators)
- Key Performance Indicators (KPI's) have been created and currently focuses on GOV RFI and Submittal performance metrics.
 - Currently have 21 KPI metrics.
- Contractors will have their own project KPIs once we move to the cloud.

eCMS Extended Future



- **Continuing to Improve (testing application)**
 - KTR may be able to use their own CMS to manage Construction (requires waiver)
 - Must purchase PM exchange software by CMIC and get approval/agreements to allow data exchange to occur.
 - One-way daily download of selective data from their CMS to eCMS.
 - Also works for existing CMS data for pulling close-out information.
 - Government uses KTR CMS and data is updated to eCMS daily.
 - For more information go to:
cmicglobal.com/integration/pmexchange

eCMS WEB RESOURCES

eCMS Websites by user:

NAVFAC/AE:

https://ecms.navfac.navy.mil/cmiproduct/UIConsole/j_security_check

Contractors:

<https://ecms.navfac.navy.mil/cmiproduct/SdMenu/index.jsp>

Link will be provided by CM/COR once contractor users are registered




eCMS OVERVIEW - Landing screen

UIConsole - Standard Console

https://ecms.navfac.navy.mil/cmiproduct/UIConsole/faces/task-flow-definition-runNamed...

Most Visited Getting Started CMiC eCMS eCMS KTR

eCMS NAVFAC
Naval Facilities Engineering Command

LISA.KOUCHINSKY

Project Management

Project Management

Project: Alpha-2 Trench Covers (5809533)

Communication Management

Site Management

Document Management

File Maintenance

Action Item Dashboard

MY ACTIONS

Alpha-2 Trench Covers

ITEMS	GROUP BY TYPE
Overdue (0)	No Actions
Today (0)	No Actions
Tomorrow (0)	No Actions
This Week (0)	No Actions
Following Week (0)	No Actions
Next 30 Days (0)	No Actions

eCMS COMMUNICATION MANAGEMENT

► Communication Management

► RFIs*

► Submittals

► Communications

► Issues/Internal Routing

► Project Calendar

► My Actions

► Distribution Lists

► Meeting Minutes

► Note: Not all folders will be visible by all users.

► *RFIs and submittals only generated by the Contractor.

The screenshot displays the eCMS NAVFAC web application interface. The left sidebar shows a navigation menu with the following items: Project Management, Communication Management (highlighted), Submittals, Communications, Issues/Internal Routing, Project Calendar, My Actions, Distribution Lists, Meeting Minutes, Project Partner Directory, Project Contact Directory, Site Management, Document Management, File Maintenance, and Action Item Dashboard. The 'Communication Management' section is expanded, and the 'RFIs' link is highlighted with a red box. A red arrow points from this link to the main content area.

The main content area displays the 'Request for Information' table. The table has the following columns: RFI No., Status, Subject, Question, Date Created, Date Required, and Forwarded. The table contains five rows of data, all with a status of 'CLOSED'.

RFI No.	Status	Subject	Question	Date Created	Date Required	Forwarded
ACRS-RFI-0001	CLOSED	ACRS-RFI-0001 Handrail pipe size	BRB Beam Connection: Please see the attached Ellis RFI#002A and railing pipe size. Q1. As per highlighted note our interruption is that railing pipe should be 1 1/2" OD. Hence we are using Pipe 1 1/4" X- strong which having OD is 1.660". Please confirm or advise. submitted 6 Dec 20. uploaded into eCMS on 21 Jan 20	2021-01-21	2020-12-13	
ACRS-RFI-0002	CLOSED	ACRS-RFI-0002 Mezzanine Dimensions	Please provide dimensional locations and sizes of the mechanical pads as well as any slab penetration in the mezzanine floors	2021-01-29	2021-01-30	
ACRS-RFI-0003	CLOSED	ACRS-RFI-0003 Angle Welds & Scope	QUESTION Amber Caro on 12/21/2020 02:37 PM See attached sheets S501 & S505 and confirm the three sided weld for washer plate is acceptable. Please see notes, in red, and confirm the scope of these angles.	2021-01-21	2021-01-29	
ACRS-RFI-0004	CLOSED	ACRS-RFI-0004 Cope of Beam Nodes	QUESTION Amber Caro on 12/21/2020 03:00 PM We are providing a cope to the beam for access to erect. Please see attached model/snap for reference and advise if we are to notify each node for the EOR to approve.	2021-01-21	2021-01-29	
ACRS-RFI-0005	CLOSED	ACRS-RFI-0005 Moment Connection Plate Conflict	QUESTION Amber Caro on 12/21/2020 03:13 PM At the clouded connection, see attached S003, if we provide 1/2" thick moment connection plate at top flange of W18x65, as per detail 5/S506, then it will conflict with pour stop material. Additionally, if we extend the plate 1/2" apart from W18x65 flange at each side, as per the highlighted dimension on details 5/S506, then it will extend	2021-01-21	2021-01-29	

The bottom of the table shows a 'Show All' button and a page indicator '1 - 50 of 66 items'.

eCMS RFI- DETAIL Input Screen

Most Visited Getting Started CMiC eCMS eCMS KTR

Request for Information

Send I/O Email Save Submit Cancel

RFI Detail Attachments

RFI-004

★ Subject

★ Create Date 2021-03-30

Priority

GOV Disposition Pending

Required 2021-04-07

User_Defined

CON Spec-Section

FSC Spec-Section

Spec Paragraph

Spec Page Number

Drawing Number

Drawing Detail

Drawing Sheet Number

RFI Disclaimer NOTE: If the determination of this RF

Sender

★ From Lisa KOUCHINSKY

Co-Author

Co-Author RFI No.

Receiver

★ To: (must send to COR/CM)

CC:

Add CC

Request

Description

Proposed Solution

Schedule Impact Potentially

Documents

pmdocument.strip.prompt

Submittal Log – View

(Select record from log to edit)

CMiC ENTERPRISE

MICHAEL.GUARINO

Project Management

Project Management

Show Filter Set_Log_Default

5945796 - FIRE SUPPRESSION REPAIRS AND U

Program Search...

Project: FIRE SUPPRESSION REPAIRS AND U

Communication Management

RFIs

Submittals

Communications

Issues/Internal Routing

Project Calendar

My Actions

Distribution Lists

Meeting Minutes

Project Contact Directory

Site Management

Potential Change Items

Daily Report

Punchlists Testing Logs

FWD UltraLean COAR RFP

Submittal Log

Search...

syslog.clear_user_defaults Export_To_CSV_R12

Drag a column header and drop it here to group by that column

<	Submittal No. ↑	Title	Spec. Section	Submittal Type Code	From Contact	Status	Date Submitted	Date Required	Updated Date	Attac...	Critical Path
<	SUB-00001	01 33 10.05 20 Design Submittal procedures	01 33 00	SD-01	Steven Raney	02 Submitted	2023-02-10	2023-02-17	2023-02-27	5	
<	SUB-00002	Schedule of Pricing	01 33 00	SD-01	Troy Adams	02 Submitted	2023-02-10	2023-02-24	2023-02-10	2	
<	SUB-00003	Submittal Register	01 33 00	SD-01	Troy Adams	02 Submitted	2023-02-10	2023-02-24	2023-02-14	3	
<	SUB-00004	Baseline Network Analysis Schedule	01 32 17.00 20	SD-01	Troy Adams	02 Submitted	2023-02-13	2023-02-27	2023-02-14	12	
<	SUB-00005	Designated Project scheduler	01 32 17.00 20	SD-01	Troy Adams	02 Submitted	2023-02-13	2023-02-27	2023-02-13	1	
<	SUB-00006	List of contract's Personnel	01 31 23.13 20	SD-01	Troy Adams	02 Submitted	2023-02-13	2023-02-27	2023-02-13	1	
<	SUB-00007	SSHO Qualifications	01 35 26	SD-01	Troy Adams	02 Submitted	2023-02-14	2023-03-02	2023-03-07	1	
<	SUB-00008	QC Manager Qualifications and appointment letter	01 45 00.00 10	SD-01	Troy Adams	02 Submitted	2023-02-14	2023-03-02	2023-02-14	1	
<	SUB-00009	Qualified Fire Protection Engineer (QPFE)	28 31 76	SD-01	Troy Adams	02 Submitted	2023-02-17	2023-03-03	2023-02-17	1	
<	SUB-00010	Corpus Budget	01 33 00	SD-01	Troy Adams	02 Submitted	2023-03-02	2023-03-17	2023-03-02	1	

1 - 10 of 10 items

eCMS SUBMITTAL DETAIL Input SCREEN

(Sub-00001 selected for edit)

Project Management

Submittal

5945796 - FIRE SUPPRESSION REPAIRS AND

Program Search...

Project: FIRE SUPPRESSION REPAIRS AND

Communication Management

RFIs

Submittals

SUB-00001

Communications

Issues/Internal Routing

Project Calendar

My Actions

Distribution Lists

Meeting Minutes

Project Contact Directory

Site Management

Potential Change Items

Daily Report

Punchlists Testing Logs

FWD UltraLean COAR RFP

Non-Compliance Notices

Weekly Check List

Send I/O Email

Send E-Mail

Edit History

Edit

Print Report

Quick Print

Back To Log

Submittal Detail

Related Objects

Attachments

History

SUB-00001

*Title01 33 10.05 20 Design Submittal procedures

Status02 Submitted

Spec Section01 33 00

*SD TypePreconstruction Submittals

Procurement Item

DO NOT USE

Spec Title (60 Max)Submittal Procedures

User_Defined

Spec Sec Para1.3

SD Type Detail

Activity Number

Submittal Variation*No

DisciplineG

Drawing # / Sheet # / Detail #

Critical Path*No

Activity TitleDesign Development

Sender

CompanyMilton J. Wood Fire Protection

*FromSteven Raney

*Transmitted ForApproval

*Requested By2023-02-17

Receiver

Approval ByNAVFAC

*ToMelinda Russell

CCConrad Cazalas, John Kuchta

Edit

Reviewer

	Step	Reviewer	Required	Due Date	Status	Action Date	
	1	Connor Fountain	NAVFAC		2023-02-27		
Add Reviewer			Select Template		Create Template		

eCMS SITE MANAGEMENT Module

Daily Reports Log

CMiC Collaboration Suite

Project: Group A Training Session Test (GROUPA)

Communication Management

Site Management

- Daily Report
- Punchlists Testing Logs
- FWD UltraLean COAR RFP
- Non-Compliance Notices
- Checklists
- KTR QC Preparatory Phase
- KTR QC Initial Phase
- KTR Safety Contractor Self-Assessment

Document Management

Action Item Dashboard

Daily Report

Search...

Add Daily Report Export_To_CSV_R12

Drag a column header and drop it here to group by that column

Journal No.	Date Created	Report Start Date	Report End Date	Prepared By
DLY-00008	2020-11-30 Monday	2020-11-30	2020-11-30	Robert Taylor_KTR
DLY-00009	2020-12-02 Wednesday	YYYYMMDD	2020-12-09	Javier MOLINARI_KTR
DLY-00010	2020-12-16 Wednesday	YYYYMMDD	2020-12-16	Robert Taylor_KTR
DLY-00011	2021-01-06 Wednesday	YYYYMMDD	2021-01-06	Robert Taylor_KTR
DLY-00013	2021-01-06 Wednesday	YYYYMMDD	2021-01-06	Robert Taylor_KTR
DLY-00016	2021-01-13 Wednesday	YYYYMMDD	2021-01-13	Robert Taylor_KTR
DLY-00017	2021-01-13 Wednesday	20210113	2021-01-13	Robert Taylor_KTR
DLY-00019	2021-01-20 Wednesday	2021-01-20	2021-01-20	Robert Taylor_KTR
DLY-00020	2021-01-21 Thursday	YYYYMMDD	2021-01-21	Robert Taylor_KTR
DLY-00021	2021-01-22 Friday	YYYYMMDD	2021-01-22	Robert Taylor_KTR

Show All 1 - 21 of 21 items

► Site Management

- Daily Report
- Punchlists / Testing Logs
- Non-Compliance Notices

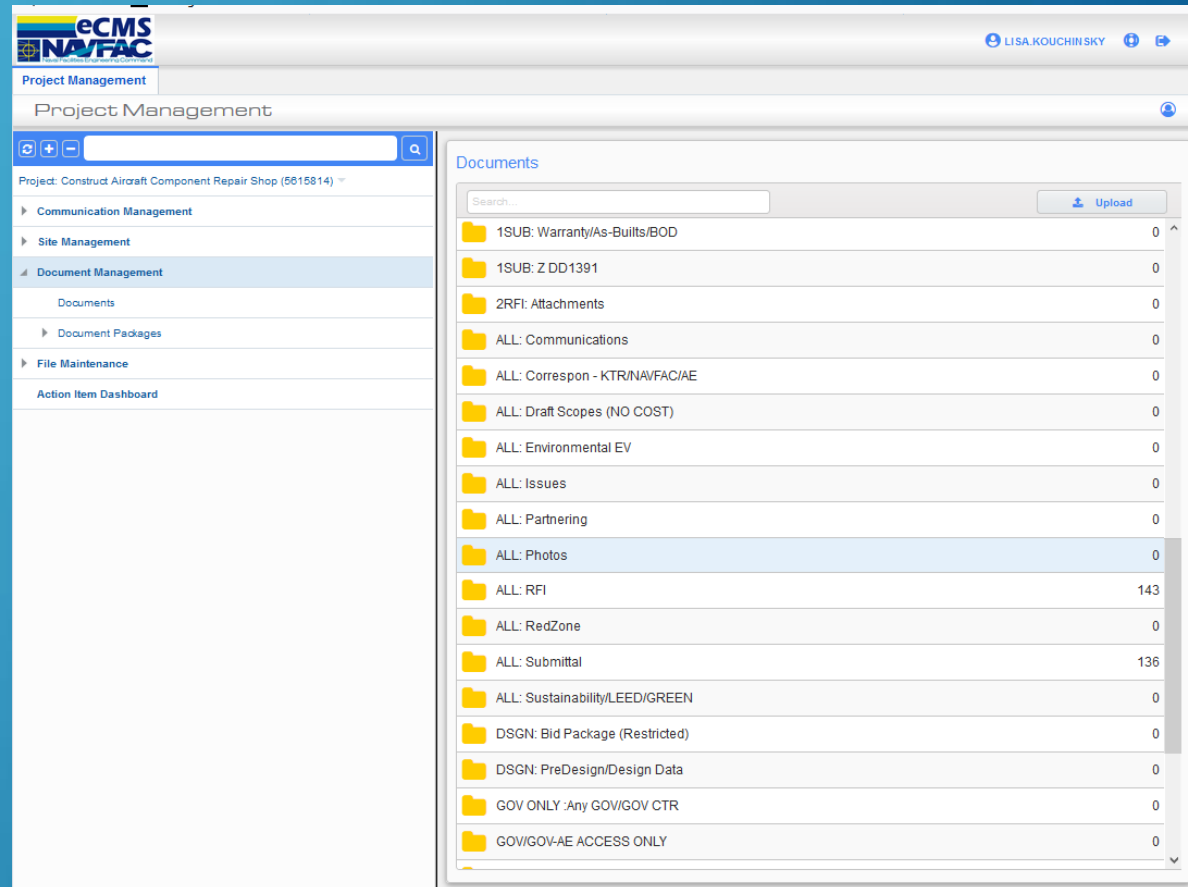
► Checklists

- Preparatory
- Initial
- Safety Contractor Self-Assessment

ECMS DOCUMENT MANAGEMENT

► Document Management

- File folders for the storage of contract drawings, specifications, reports, photos, etc.
- All files are stored in these folders and linked to the objects/records. i.e. RFI or Submittal record.



Overview Dashboard

CMiC ENTERPRISE

Project Management

Project Management

Security

Wide Area Workflow (WAWF)

Contractor Performance Assessment Re

eCMS Access Request Form

eCMS (Internal)

ieFACMAN

eCMS Registration Site

GOV eCMS Resources

eCMS Resources

Dashboards

User Action Items

Project Ball In Court

User Completed Action Items

KPI Details

Overview

RFI Details

Project RFI Details

Project Submittal Details

Project Lookup

User Lookup

eCMS Usage

Message

Use page filter Magnifying Glass to search ECH/FEC/FEAD and Project specific data. Bold data has link to drilldown dashboards. Summary Info on RFIs, Submittals. Note: Submittal duration will be updated in next version.

Projects

2,465

#KPI Checklist

219

Non-Compliance Notices

324

Total # RFIs

36222

RFIs Open

2934

Avg Days RFI Open

184

Avg Days RFIs Answered

13

Submittals

96,351

Open Submittals

10,583

Completed

67,959

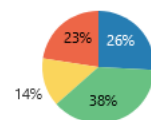
Disapproved

15,375

% Disapproved

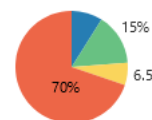
16

Avg RFI Response Range



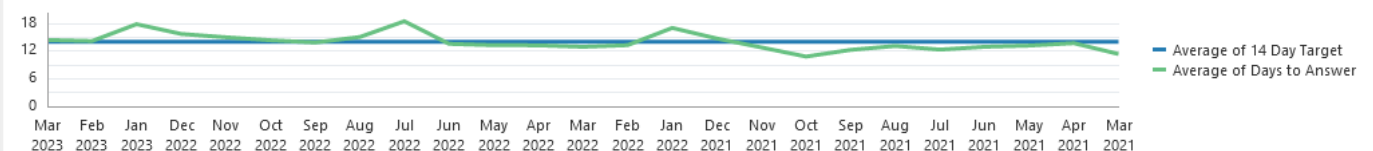
01-04
05-13
14-20
21+

Avg OPEN RFI Range



01-04
05-13
14-20
21+

Avg RFI Response - 14 Day Target



KPI Details Dashboard

Granularity down to project and user level.

CMiC ENTERPRISE

MICHAEL.GUARINO



Project Management

Project Management



Security

Wide Area Workflow (WAWF)

Contractor Performance Assessment Req

eCMS Access Request Form

eCMS (Internal)

ieFACMAN

eCMS Registration Site

GOV eCMS Resources

eCMS Resources

Dashboards

User Action Items

Project Ball In Court

User Completed Action Items

KPI Details

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Project RFI Details

Project Submittal Details

Project Lookup

User Lookup

eCMS Usage

KPI DETAILS BETA



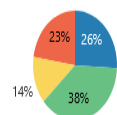
ECH/FEC/FEAD	Project	From	To Date
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Projects	Total # RFIs	# RFIs Answered	Avg Days RFIs Answered	# RFIs Open	Avg Days RFI Open
2,465	36659	33209	13	2934	184

Message

Use page filter Magnifying Glass to search ECH/FEC/FEAD and Project specific data. Use From To Filters to limit data by date. There should be one KPI checklist per project.

Avg RFI Response Range



Avg RFI Response - 14 Day Target



Page 1 of 2

# Submittals	# Completed	# Open	# Disapproved	% Disapproved
96,350	67,959	10,582	15,375	16

#KPI Checklist

219

KPI QUESTIONS DETAILS "1" = No; "0" = Yes or NA, BETA: Ignore numbers greater than 1 in data.

Project Code*	Project Name*	KTR Mob wi 60d of Award/DB Dsgn approval?	Precon Submittals Approved wi 60d?	Precon Conf/PAK mtg completed wi 60d?	Partnering Escalation Matrix wi 60d?	Partnering Health Survey >4?	Date	Checklist Status
5419076	KC-46A Regional Maintenance Training Facility	0	0	0	0	0	13 Sep 2022	SUBMITTED
5469947	Pier 32 Replacement	1	0	0	0	0	11 Mar 2021	SUBMITTED
5482215	P1495, 5th Battalion, 10th Marine High Mobility Artillery	0	0	0	0	0	11 Mar 2021	SUBMITTED
5484120	Companion Facility MCAS Beaufort	0	1	0	0	0	13 Sep 2022	PENDING
248		90	81	0	36	41		