



Grant Document Information REST Web Service

Technical User Guide

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1 Purpose

The purpose of this technical user guide is to provide general information and instructions on how to access the GF Document information REST web service.

2 General Description

The GF Document Info REST service provides the information for any grant application in the eRA database including the metadata for each document and the closeout correspondence information associated to the requested grant application.

3 Security

Secure Socket Layer (SSL) client certificate **is required** for authentication and authorization.

4 Prerequisites

The caller must have a certificate from a provider supported by eRA. The certificate must be registered with eRA for accessing this service. General information on procuring and registering the certificates can be found

https://grants.nih.gov/grants/electronicreceipt/files/S2S_Web_Services_Guide.pdf

The certificate account needs be registered via the User Admin module and assigned the **IC_ACCESS_GF_METADATA_SERV** role in order to access the service.

To access the intramural, contracts and subprojects, the account needs to be assigned the role **ACCESS_GF_ALL_METADATA_SERV**.

Note: For the consumer who are migrating from SOAP based webservice to REST, the existing certificate account for the SOAP service would work for REST service as well.

5 Service Locations (YAML) URLs

Staging –

<https://apps.stage.era.nih.gov/grantfolder/swagger/swagger.html?yaml=gf-documentinfo.yaml>

URL:

<https://services.external.stage.era.nih.gov/grantfolder/api/gfdocuments/getGrantDocumentInfo>

Production –

<https://apps.era.nih.gov/grantfolder/swagger/swagger.html?yaml=gf-documentinfo.yaml>

URL:

<https://services.external.era.nih.gov/grantfolder/api/gfdocuments/getGrantDocumentInfo>

6 Operations

The GF Document Info Service currently supports the below operations:

- *getGrantDocumentInfo*
- *getGrantCorrespondence*

6.1 *getGrantDocumentInfo*

getGrantDocumentInfo returns the Grant document information for the specified application id. Sections 6.1.1 and 6.1.2 provide the Input (*GrantDocumentInfoRequest*) and Output (*GrantDocumentInfoResponse*) of the *getGrantDocumentInfo*.

6.1.1 *Input Elements*

Figure 1 describes the input elements that are part of the *GrantDocumentInfoRequest* to retrieve the Grant information.

Element Name	Number of Occurrences	Required?	Description
applId	1	Y	Unique grant application id that will be sent by requesting system.
docType	1	N	Document type code (Can be up to 6 character in length). Examples of supported document types are APX, AWS, BIS, ENG, FRM, FSR etc.

Figure 1 Input Elements in *GrantDocumentInfoRequest*

6.1.2 *Output Elements*

Figure 2 defines the elements returned by *getGrantDocumentInfo* as part of the *GrantDocumentInfoResponse*. The elements *grantNumber*, *piDetails* and *documentMetaDataInfo* are elaborated in the sections 6.1.2.1, 6.1.2.2, and 6.1.2.3 respectively.

Element Name	Number Of Occurrences	Required?	Description
grantNumber	1	Y	Grant Number broken down in to its constituent elements. (Listed in Section 6.1.2.1).
piDetails	Unbound	Y	PIs designated to the Grant Application, all PIs' names, PersonIDs and role types will be listed. (Listed in Section 6.1.2.2).
projectTitle	1	Y	Project Title.
applicationStatus	1	Y	Status of the grant application.
institution	1	Y	Name of the Institution.

Element Name	Number Of Occurrences	Required?	Description
applId	1	Y	Application ID.
councilMeetingDate	1	N	Council Meeting date.
documentMetaDataInfo	Unbound	Y	<p>This section will return the following:</p> <ul style="list-style-type: none"> Multiple version of the same document type related to the grant with document metadata and URL's returned by document metadata service. Single document related to the grant with document metadata and URL returned by document metadata service <p>(The document metadata is defined in Section 6.1.2.3).</p>

Figure 2 Output Elements in GrantDocumentInfoResponse

6.1.2.1 grantNumber

The grantNumber will be returned including its constituent elements as defined in Figure 3.

Parameter Name	Number of Occurrences	Required?	Description
fullGrantNumber	1	Y	The Grant Number
applTypeCode	1	Y	Application Type Code
activityCode	1	Y	Activity Code
serialNum	1	Y	Serial Number
supportYear	1	Y	Support Year
suffixCode	1	N	Suffix Code
subprojectID	1	N	This identifies the subproject

Figure 3 grantNumber Elements

6.1.2.2 piDetails

The piDetails and its elements defined in Figure 4 will be returned.

Parameter Name	Number of Occurrences	Required?	Description
piPersonID	1	Y	PI Person ID
piName	1	Y	PI Full Name
piRole	1	Y	Role could be PI or MPI

Figure 4 PI Details Elements

6.1.2.3 documentMetadataInfo

The Document Metadata contains the elements, docType and businessID along with attribute, location, appdata and userdata which hold name/value pairs for the metadata.

Parameter Name	Number of Occurrences	Required?	Description
docType	1	Y	Three character doc type code and its attributes
ID	1	Y	A unique ID associated with a document.
fileName	1	N	File Name provided by the user at the time of upload or created by the system at the time of submission
submittedFileDate	1	N	Submitted date of the document
contentType	1	N	Document file type
fileSize	1	N	File size calculated after document has been saved
createdDate	1	N	Created date of the document
submitter	1	N	User id captured at the time of upload
location (further explained in section 6.1.2.3.1)	unbound	Y	This includes name/value pairs for URLs (to access the document).
appdata (further explained in section 6.1.2.3.2)	unbound	Y	This includes name/value pairs for optional business metadata like fsrID, issueDate etc.
userdata (further explained in section 6.1.2.3.3)	unbound	Y	This includes name/value pairs for optional user provided metadata like labelText, descriptionText etc.

Figure 5 Elements of the Document Metadata

6.1.2.3.1 location (URLs)

List of URLs generated at run time that can be used to access the document. Please refer to example in section 6.4.2 for sample name value pairs for the location URLs.

Name	Description
APPS	URL for NIH user to access Document Service application directly for document.
REDIRECT	Redirect URL to retrieve the document for the

Name	Description
	specified document type and application id. The redirect URL contains a token that makes it a temporary URL. For security reasons, the temporary URL will expire after it has been visited one time or after 1 minute.
S2S	URL for IC system with mapped certificate to access Document Service application directly for document.

Figure 6 location

6.1.2.3.2 appdata (Application Data)

Optional business metadata will be provided as name value pairs for each document type. Figure 7 shows examples of business metadata based on document type.

Name	Description
fsrID	Fsr ID Example Applicable Document Type: FSR
issueDate	Issue Date of Notice of Award Example Applicable Document Type: NGA
rptSeqNum	Report Sequence number or key id for notice of award Example Applicable Document Type: ENG
periodNum	Period number for multiyear grants Example Applicable Document Type: MPR
revisionNum	Indicates number of times the document was revised Example Applicable Document Type: PRM
receivedDate	Received date for multiyear progress reports Example Applicable Document Type: FSR

Figure 7 Optional Business Metadata

6.1.2.3.3 userdata (User Defined Data)

Optional user provided metadata will be provided as name value pairs for each document type. Figure 8 defines the user-defined metadata provided based on document type.

Name	Description
labelText	Label name saved internally when the file has been uploaded

Name	Description
	Example Applicable Document Type: IGI
descriptionText	Comment or description provided by the user at the time of document upload
	Example Applicable Document Type: ACI
bookmarkText	Bookmark text for document that could be used for search in grant folder
	Example Applicable Document Type: CFD

Figure 8 Optional User-defined Metadata

6.2 *getGrantCorrespondence*

getGrantCorrespondence returns the GCC enotifications for the specified application id. Sections 6.2.1 and 6.2.2 provide the details of the Input (*GrantCorrespondenceRequest*) and Output (*GrantCorrespondenceResponse*) respectively. The list of supported enotifications is specified in section 7.2.

6.2.1 *Input Elements*

Figure 9 describes the input elements that are part of the *GrantCorrespondenceRequest* to retrieve the enotifications.

Element Name	Number of Occurrences	Required?	Description
applId	1	Y	Unique grant application id that will be sent by requesting system.

Figure 9 Input Elements in *GrantCorrespondenceRequest*

6.2.2 *Output Elements*

Figure 10 defines the elements returned by *getGrantCorrespondence* operation as part of the *GrantCorrespondenceResponse*. The element *correspondenceData* is elaborated section 6.2.2.1.

Element Name	Number Of Occurrences	Required?	Description
applId	1	Y	Application ID.
correspondenceData	Unbound	N	Includes the enotification details for all the closeout correspondences for requested application. (Listed in Section 6.2.2.1).

Figure 10 Output Elements in *GrantCorrespondenceResponse*

6.2.2.1 correspondenceData

The correspondenceData will be returned including its constituent elements as defined in Figure 11.

Parameter Name	Number of Occurrences	Required?	Description
notificationName	1	Y	Enotification Name
Id	1	Y	Unique Identifier for each of the enotifications
description	1	Y	Notification Description
sentDate	1	Y	Enotification sent date.
fromAddress	1	Y	Enotification From Address
toAddress	1	Y	Enotification Recipient Addresses
ccAddress	1	N	Enotification Recipient Addresses in CC
bccAddress	1	N	Enotification Recipient Addresses in BCC
subject	1	Y	Subject of the Enotification
emailContent	1	Y	Content of the Enotification

Figure 11 correspondenceData Elements

6.3 Example REST Requests and Responses

The below sections include the request and response for the operations getGrantDocumentInfo and getGrantCorrespondence.

6.3.1 Example GrantDocumentInfoRequest

Figure 15 provides a code sample of a REST request used to retrieve the Grant Document Information

```
{  
  "applId" : "10784022",  
  "docType" : "ENG"  
}
```

Figure 12 Example of GrantDocumentInfoRequest to retrieve the Grant Document Information

6.3.2 Example GrantDocumentInfoResponse

Figure 16 provides a code sample of the REST response with the returned data.

```
{"grantDocumentInfo": {  
  "grantNumber": {  
    "fullGrantNumber": "5H79TI085784-02",
```

```
"applTypeCode": "5",
"activityCode": "H79",
"serialNum": "085784",
"supportYear": "02",
"suffixCode": null,
"subprojectID": null
},
"piDetails": {
  "piPersonID": "9278997",
  "piName": "Brown, Wendy Catherine",
  "piRole": "PI"
},
"projectTitle": "VI State Opioid Response Program",
"applicationStatus": "Awarded. Non-fellowships only",
"institution": "Test",
"orgPath": "DHHS/SAMHSA/CSAT",
"councilMeetingDate": "202200",
"applId": 10784022,
"documentMetaDataInfo": [
  {
    "docType": "ENG",
    "id": "4551408",
    "fileName": "document94403.pdf",
    "submittedFileDate": [2023, 9, 2],
    "mimeType": "application/pdf",
    "fileSize": "104589",
    "createdDate": [2023, 9, 2],
    "submitter": "ERAFLEXDOC",
    "location": [{
      "name": "APPS",
      "value":
"https://apps.era.nih.gov/docservice/DocService/GetDocument?docType=ENG&keyId=
1066811"
    }],
    {
      "name": "S2S",
      "value":
"https://services.internal.era.nih.gov/docservice/dataservices/document/keyId/
1066811/ENG"
    }],
    {
      "name": "S2S-Redirect",
      "value":
"https://services.internal.era.nih.gov/docservice/dataservices/document/once/k
eyId/1066811/ENG"
    }
  ]],
  "appData": [{
    "name": "issueDate",
    "value": [2023, 9, 2]
  },
  {
    "name": "rptSeqNum",
    "value": "1066811"
  }
]]
}]
```

```
}
```

Figure 13 Example GrantDocumentInfoResponse including the Grant Document Information

6.3.3 Example GrantCorrespondenceRequest

Figure 17 provides a code sample of a REST request used to retrieve the GCC enotifications

```
{  
  "applId": "10784022"  
}
```

Figure 14 Example of GrantCorrespondenceRequest to retrieve the GCC Enotifications

6.3.4 Example GrantCorrespondenceResponse

Figure 18 provides a code sample of the REST response including GCC enotifications.

```
{  
  "applId": "10784022",  
  "correspondenceData":  
    {  
      "notificationName": "GCM_CLOSEOUT_COMPLETE_LETTER",  
      "id": "11681945",  
      "description": "GCM: Close out Complete notification",  
      "fromAddress": "era-notify-dev@mail.nih.gov",  
      "toAddress": "eRADev@mail.nih.gov",  
      "subject": "Grant 5 R21 AA021132-02 Now Closed",  
      "emailContent": "[<p></p><p>Dear Signing Official,</p>  
<p>&nbsp;Thank you for fulfilling the final reporting requirements for the  
grant referenced in the subject line above.&nbsp;NATIONAL INSTITUTE ON ALCOHOL  
ABUSE AND ALCOHOLISM has accepted the final reports submitted, and the award  
is now officially closed.&nbsp; &nbsp;Please note that you must retain  
pertinent grant records for period of 3 years from the date of submission of  
the final Federal financial report.&nbsp; The records retention requirement,  
and other relevant post-closeout, reminders are summarized below.</p>  
<p class="Default">Financial records, supporting documents, statistical  
records, and all other records pertinent to an award must be retained for a  
period of 3 years from the date of submission of the final FFR except that If  
any litigation, claim, financial management review, or audit is started before  
the expiration of the 3-year period(even if it extends beyond the 3-year  
period), the records must be retained until all litigation, claims or audit  
findings involving the records have been resolved and final action taken.  
Records for real property and equipment acquired with federal funds (or any  
required matching or cost sharing) must be retained for 3 years after final  
disposition.</p>  
<p class="Default">&nbsp;If the grant/cooperative agreement is closed based on  
approved provisional indirect cost rates and negotiated final indirect cost  
rates are lower than the approved provisional rates, all excess indirect costs  
claimed must be returned to NIH within 45 days of the date of the letter  
transmitting the final rates. Your final rates may have come from the
```

```
Department of Health and Human Services or another cognizant federal agency.  
The return of excess indirect costs must be accompanied by a revised final  
FFR.</p>  
<p>The closeout of a grant/cooperative agreement does not affect your  
obligation to return any amounts due to the federal government as a result of  
later audit disallowances, refunds, corrections, or other actions. All funds  
due that are not returned constitute a debt to the federal government. It is  
not necessary to submit revised closeout documents with each repayment;  
however, it is necessary that each payment be accompanied by the following  
information: the grant/cooperative agreement number, the source or nature of  
the payment, and any other pertinent information relating to the amount that  
assists us in properly accounting for the funds.</p>  
<p>cc:&nbsp;CHARLES LANG, Principal Investigator</p>  
    }  
}
```

**Figure 15 Example GrantCorrespondenceResponse including the GCC
enotifications**

6.4 Http Error codes

The HttpError codes returned by the service.

HttpError Code	Message	Meaning
201	Success	
400	Bad Request	Invalid Parameter like applId is missing or format wrong.
403	Access denied	Insufficient privilege
500	Internal error	Internal server error when there is a code issue or underlying systems down.

Figure 16 Http Error codes

7 Appendix

7.1 Document Type – Metadata Mapping

The below figure gives a mapping between the Document Types and the Document Metadata.

docMetaData		
core attributes	userdata	appdata

Document Description	docType	fileName	submittedFileDate	ID	submitter	mimeType	fileSize	createdDate	labelText	descriptionText	bookmarkText	fsrID	acceptedDate	issueDate	rptSeqNum	periodNum	revisionNum	receivedDate
Apendix 2	A02	X	X	X	X	X	X	X										
Apendix 3	A03	X	X	X	X	X	X	X										
Apendix 4	A04	X	X	X	X	X	X	X										
Apendix 5	A05	X	X	X	X	X	X	X										
Apendix 6	A06	X	X	X	X	X	X	X										
Apendix 7	A07	X	X	X	X	X	X	X										
Apendix 8	A08	X	X	X	X	X	X	X										
Apendix 9	A09	X	X	X	X	X	X	X										
Apendix 10	A10	X	X	X	X	X	X	X										
Animal Assurance	AAD	X	X	X	X	X	X	X	X	X	X							
Abstract	AB	X	X	X	X	X	X	X										
Audit and COI Issues	ACI	X	X	X	X	X	X	X	X	X	X							
Accepted Publication	ACP	X	X	X	X	X	X	X	X	X	X							
Award Document	AD	X	X	X	X	X	X	X	X	X	X							
Apendix	APX	X	X	X	X	X	X	X										
Award Worksheet	AWS	X	X	X	X	X	X	X							X			
Biographical Sketches	BIS	X	X	X	X	X	X	X	X	X	X							
eSubmission Budget Page	CBP	X	X	X	X	X	X	X										
eSubmission Checklist Page	CCP	X	X	X	X	X	X	X										
CRU Council of Councils Recommendation	CCR	X	X	X	X	X	X	X										
Co-funding Documents	CFD	X	X	X	X	X	X	X	X	X	X							
eSubmission Face Page	CFP	X	X	X	X	X	X	X										
Closeout Document	CLD	X	X	X	X	X	X	X	X	X	X							
Updated Pages	COL	X	X	X	X	X	X	X	X	X	X							
CRU Report	CRU	X	X	X	X	X	X	X										
Electronic Cover Sheet	ECS			X	X	X	X	X										
Notice(s) of Grant Award (PDF)	ENG	X		X	X	X	X	X	X						X			
External Documents	EXT	X	X	X	X	X	X	X	X	X	X							
Foreign Component Data Snapshot	FCD	X	X	X	X	X	X	X	X									
Follow-up Enforcement Considerations and	FEC	X	X	X	X	X	X	X	X									

	docMetaData																	
	core attributes								userdata			appdata						
Document Description	docType	fileName	submittedFileDate	ID	submitter	mimeType	fileSize	createdDate	labelText	descriptionText	bookmarkText	fsrID	acceptedDate	issueDate	rptSeqNum	periodNum	revisionNum	receivedDate
Other Actions																		
Final Invention Statement	FIS	X	X	X	X	X	X	X	X									
Financial Documents	FND	X	X	X	X	X	X	X	X	X	X							
Final Progress Report Acceptance	FPA	X	X	X	X	X	X		X									
Funding/Pay Memos	FPM	X	X	X	X	X	X	X	X	X	X							
Final Progress Report	FPR	X	X	X	X	X	X	X	X									
FRAM Submission	FRM	X	X	X	X	X	X		X									
FFR(s)/FSR(s)	FSR	X	X	X	X	X	X	X	X			X	X					X
Grant Spreadsheet	GSH	X	X	X	X	X	X	X	X	X	X							
Historic Documents	HIS	X	X	X	X	X	X	X	X	X	X							
Human Subjects	HSD	X	X	X	X	X	X	X	X	X	X							
e-Application	IGI	X		X	X	X	X	X	X									
Collaboration Letters	INT	X	X	X	X	X	X	X	X	X	X							
JIT Documents	JID	X	X	X	X	X	X	X	X	X	X							
Just In Time	JIT	X	X	X	X	X	X	X	X									
Modified Budget Pages	MBP	X	X	X	X	X	X	X	X	X	X							
Progress Report Additional Material (PRAM) – (For Multiyear and contains only Public Compliance)	MPR	X	X	X	X	X	X	X	X							X		
Research Performance Progress Report –(For Multi Year Grants)	MYP	X	X	X	X	X	X	X	X							X		
Progress Report Additional Material (PRAM)- (For Single Year and contains IC &Public Compliance)	PRM	X	X	X	X	X	X	X	X								X	
eRA NC Extension	NCE	X	X	X	X	X	X	X	X	X	X							
Notice(s) of Grant Award	NGA	X	X	X	X	X	X	X	X					X	X			
NRSA Documents	NRD	X	X	X	X	X	X	X	X	X	X							
Other e-Application	OGI	X	X	X	X	X	X	X	X									

	docMetaData																	
	core attributes								userdata			appdata						
Document Description	docType	fileName	submittedFileDate	ID	submitter	mimeType	fileSize	createdDate	labelText	descriptionText	bookmarkText	fsrID	acceptedDate	issueDate	rptSeqNum	periodNum	revisionNum	receivedDate
Other	OTH	X	X	X	X	X	X	X	X	X	X							
Reference Letter 01	R01	X	X	X	X	X	X	X	X									
Reference Letter 02	R02	X	X	X	X	X	X	X	X									
Reference Letter 03	R03	X	X	X	X	X	X	X	X									
Reference Letter 04	R04	X	X	X	X	X	X	X	X									
Reference Letter 05	R05	X	X	X	X	X	X	X	X									
Revised Aims and Abstract	RAA	X	X	X	X	X	X	X	X	X	X							
State Department Clearance(s) Snapshot	SCS	X	X	X	X	X	X	X	X									
State Dept. Clearance	SDC	X	X	X	X	X	X	X	X	X	X							
Sandy Quarterly Report	SQR	X	X	X	X	X	X	X	X									
Summary Statement	SS	X	X	X	X	X	X	X	X									
Other Summary Statements	SSP	X	X	X	X	X	X	X	X									
Supplemental Material	SUP	X	X	X	X	X	X	X	X	X	X							
Transfer Documents	TRA	X	X	X	X	X	X	X	X	X	X							
Internal Documents	UPD	X	X	X	X	X	X	X	X	X	X							
Summary Statement	SSF	X	X	X	X	X	X	X	X	X	X							
Grant Snapshot Report	GSR			X		X			X									
Inclusion	IMR			X		X			X									
GM Workbook	WBR	X	X	X	X	X	X	X	X	X	X							
Final RPPR	FRPPR	X	X	X	X	X	X	X	X									
Change of PD/PI Request	PRACPC	X	X	X	X	X	X	X	X									
No Cost Extension Request	PRANCE	X	X	X	X	X	X	X	X									
Carryover Request	PRACOV	X	X	X	X	X	X	X	X									
Interim Research Performance Progress Report Acceptance	IPA	X	X	X	X	X	X	X										
NCI Grants Management Checklist	NGC	X	X	X	X	X	X	X										
NCI Program Checklist	NPC	X	X	X	X	X	X	X										
Latest IRAM (Interim Research performance)	COIRAM	X	X	X	X	X	X	X	X									

	docMetaData																	
	core attributes								userdata			appdata						
Document Description	docType	fileName	submittedFileDate	ID	submitter	mimeType	fileSize	createdDate	labelText	descriptionText	bookmarkText	fsrID	acceptedDate	issueDate	rptSeqNum	periodNum	revisionNum	receivedDate
Progress Report Additional Material)																		
RPPR Study Comparison Document	CSTUDY	X	X	X	X	X	X	X										

Figure 17 Document Types – Metadata Mapping

7.2 Supported GCC Enotifications

Below is the list of GCC Notifications supported by the ‘getGrantCorrespondence’ operation.

Notification Name	Description
FRAM_SUBMITTED_INTERNAL	Notification sent to Program Officer(PO) when FRAM is submitted to agency
GCM_CLOSEOUT_COMPLETE_LETTER	Notification is generated when a grant gets closed and sent to Signing Official (SO)
FPR_SUBMITTED_INTERNAL	Notification sent to Program Officer(PO) when Final Progress Report (FPR) is submitted to Agency – Manual Submission via Commons
FPR_SUBMITTED_INTERNAL_GCM	Notification sent to Program Officer(PO) when Final Progress Report (FPR) is submitted to Agency – Manual Submission via Grant Closeout Module
FPR_SUBMITTED_EXTERNAL	Notification sent to Principal Investigator (PI) when Final Progress Report (FPR) is submitted to Agency – Manual Submission via Commons
FPR_SUBMITTED_EXTERNAL_GCM	Notification sent to Principal Investigator (PI) when Final Progress Report (FPR) is submitted to Agency – Manual Submission via Grant Closeout Module
GCM_GCC_LTR1	Letter manually generated from Grant Closeout Module within 10 days following Project Period End (PPE) date indicating that final reports are due.
GCM_GCC_LTR2	Automatic notification sent to signing official on 121st day after PPE if grant has not been closed out.
GCM_GCC_LTR3	Automatic notification sent to signing official on 121st day after PPE if grant has not been closed out (Applies only to grants with PPE date greater than 9/30/2014)
FFR_REJECTION	Federal Financial Report (FFR) rejection sent by the agency informing that the FFR has been rejected

GM_UNILATERAL_CLOSEOUT_LETTER	Notification sent to Grantee informing that a grant has been unilaterally closed
GM_UNI_CLOSEOUT_OPEN_RPT_LNKS	External Submission Links Reopened notification sent to Grantee
PGM_FRAM_REQUEST	Final Progress Report Additional Material Request sent to Grantee
FRPPR_SUBMITTED_INTERNAL	FRPPR email for internal GF initiated from Commons.
FRPPR_SUBMITTED_EXTERNAL_GCM	FRPPR email for external initiated from GCM
ADMINAPP_PMM_IRAM_REQUEST	Interim Research Performance Progress Report Additional Material Request sent to Grantee

Figure 18 Supported GCC Enotifications