CENTRE TM (Common Enterprise Resource)

Systems and Software Engineering Platform designed for CMMI compliance

Capability Maturity Model Integration (CMMI) is a process improvement approach that provides organizations with the essential elements of effective processes. CMMI helps integrate traditionally separate organizational functions, set process improvement goals and priorities, provide guidance for quality processes, and provide a point of reference for appraising current processes. (Software Engineering Institute, SEI web-site, www.sei.cmu.edu/cmmi/general/)

CENTRE is a software product designed, authored and produced by **Integration Technologies Group Inc. CENTRE** is composed of configurable modules intended to provide compliance with **CMMI** process areas and **ISO** clauses while increasing organizational efficiency, effectiveness and continual improvement.

Integration Technologies Group Inc. (ITG), www.itgonline.com, is a systems and software engineering company founded in 1984 and headquartered in Falls Church, Virginia, USA. ITG is ISO 20000-1:2005, ISO 9001:2008 and ISO 27001:2005 registered. As well, the company is an SEI member and partner and has been externally appraised twice at CMMI Level 3.

This document contains brief descriptions of **CENTRE CMMI** Software features which cover specific and generic evidence of compliance for practices required by **CMMI for Development Version 1.2** process areas. As with all process improvement methodologies and industry best practices, management commitment, quality record collection, analysis and processing are required to achieve improvement objectives and successful appraisals and registrations.

CENTRE was developed to facilitate today's Best Practices Certifications and process improvement methodologies. By using **CENTRE**, businesses can increase efficiencies across key business processes and satisfy many of the requirements stipulated by the **SEI** and international standards boards. Some of the benefits that may be derived by implementing compliance with **CMMI** process areas are:

- Improved Quality of Output
- Increased Accuracy of Estimates
- Earlier Identification of Defects
- Accurate Measurements of Processes
- Higher Operational Efficiency
- Cost Reduction and Integration with Industry Standards

As a result, an organization using **CENTRE** will be recognized as delivering successful service to its clients and constituents with dependably high-quality and consistent methods and practices. The **CENTRE CMMI** Software 1.2 implementation includes 'CENTRE ISO 9001:2008' Quality Management System elements which are:

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CENTRE - Document Control System (DCS)

CENTRE - Records Control System (RCS)

CENTRE - Human Resources

CENTRE - Meeting Management

CENTRE - Customer Satisfaction Surveys

CENTRE - Supply Chain Management

CENTRE - Ad-Hoc Report Writer

These elements are described in more detail in the **CENTRE ISO 9001:2008** Compliance Package - White Paper.

Disclaimer

Use of CENTRE modules or similar software alone does not result in organizational CMMI conformance. Documented procedures, defined processes and work instructions, staff training and internal audits of Process Areas compliance are needed to prepare an organization for a CMMI appraisal. The ITG CENTRE Document Control System (DCS) contains documentation that describes the ITG Quality Management System and consists principally of the following documents:

- Business Quality Manual (BQM) in conformance with ISO 9001:2008,
- Information Technology Services Management manual (ITSM) in conformance with ISO 20000-1:2005,
- Information Security Management System manual (ISMS) in conformance with ISO 27001:2005,
- Corporate process workflow, Quality Procedures and Quality Work Instructions.

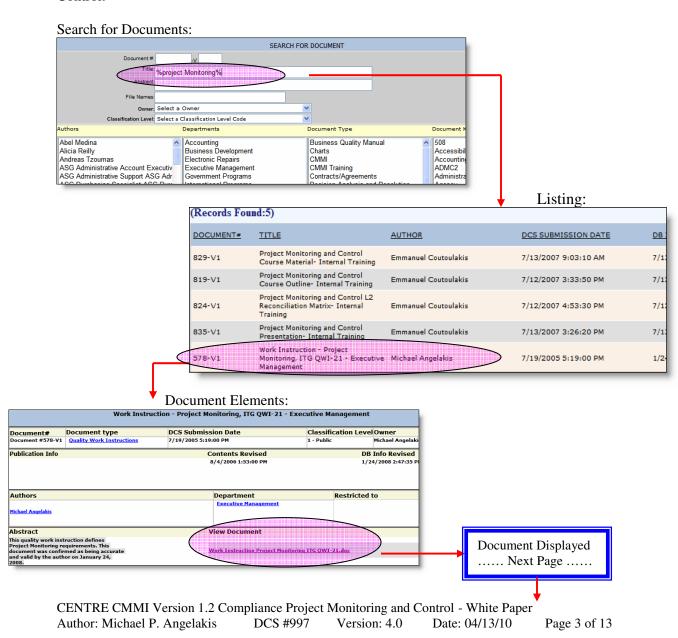
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CENTRE CMMI Specific & Generic Evidence Elements:

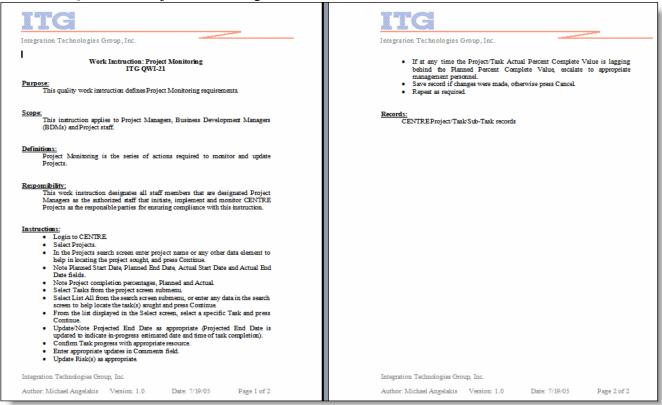
CENTRE Project Monitoring and Control

SP 1.1 Monitor the actual values of the project planning parameters against the project plan.

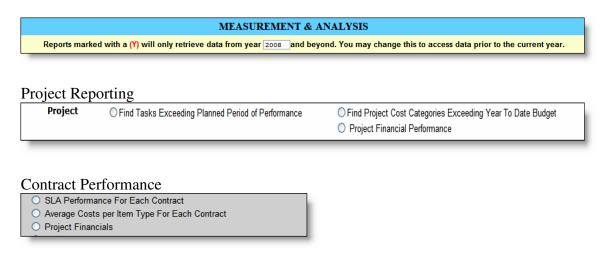
CENTRE Evidence: The direct evidence for actual Project values are contained in CENTRE data (SLA compliance, project daily status reports, etc.), Project Financials Module, Project scorecard, and Management Meeting minutes. Inherent to CMMI compliance is the Document Control System (DCS), which contains the CENTRE ISO document depository. A component of compliance with this process area is Quality Procedure 11, which outlines the operation and mission of Management Review Boards and Quality Work Instruction 21, Project Monitoring and Control:



ITG-QWI-21 'Project Monitoring Work Instruction'



As well, direct evidence for compliance with this Specific Practice includes components of the Measurement & Analysis facility:



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Quality Assurance Reports

QA Ontract QA Summary Results Ontract QA Summary Results By TAM Contract QA Summary Results By City
Ontract QA Summary Results By SME Contract QA Summary Results By BDM

Contract QA Summary Results By Local FE
 Contract QA Summary Results By Subcontractor
 Contract QA Less than Mean and Parameter
 Specified User Category

SP 1.2 Monitor commitments against those identified in the project plan.

CENTRE Evidence: Direct evidence for Project Monitoring related commitments is found in the budget, SLA, QA, estimating and earned value reporting facilities throughout **CENTRE Projects** and **Contracts** modules.



SELECT CUSTOMER SURVEY FORM
All Surveys Organizational Innovation and Deployment Professional Services Software Development Software Hardware Survey Software Hardware Installation and Migration Training

Cost Category Name	Estimated Current month	Budgeted Current month	Actual Current month
MATERIAL HANDLING COST	3,083.00	3,083.00	6,019.59
MAINTENANCE LABOR COST	79,583.00	79,583.00	78,737.15
DIRECT LABOR COST	71,599.00	71,599.00	51,087.60
MAINTENANCE PARTS COST	37,571.00	37,571.00	29,537.53
CONTRACT REVENUE	400,000.00	400,000.00	364,629.47
NET MARGIN	119,115.00	119,115.00	35,568.43
FREIGHT COST	6,720.00	6,720.00	7,551.77
TRAVEL COST	4,600.00	4,600.00	83.00
COMMISSIONS	2,990.00	2,990.00	0.00
OTHER DIRECT COST	2,362.00	2,362.00	1,313.44
NATIONAL SUPPORT CENTER COST	59,055.00	59,055.00	68,210.21

SLA Attainment

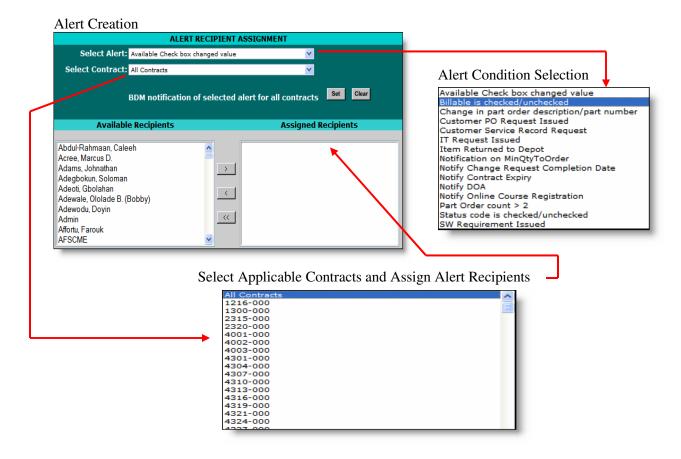
		SLA PERFOR Selected Date R	MANCE FOR EA		nα	
Contract	Repair SLA met	Response SLA met	Total Service Records	Total Service Records with Responses	% Repair SLA met	% Response SLA met
4333-000	30	18	30	18	100.00%	100.00%
5263-000	49	1	50	1	98.00%	100.00%
7451-999	0	4	4	4	NA	100.00%
7647-222	0	1	1	1	NA	100.00%
8001-000	5	6	6	6	83.33%	100.00%
8001-003	6	6	6	6	100.00%	100.00%
8010-000	0	3	3	3	NA	100.00%
8032-000	56	56	56	56	100.00%	100.00%
8042-000	11	11	11	11	100.00%	100.00%
8044-001	1	1	1	1	100.00%	100.00%
8045-111	138	143	143	143	96.50%	100.00%

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SP 1.3 Monitor risks against those identified in the project plan.

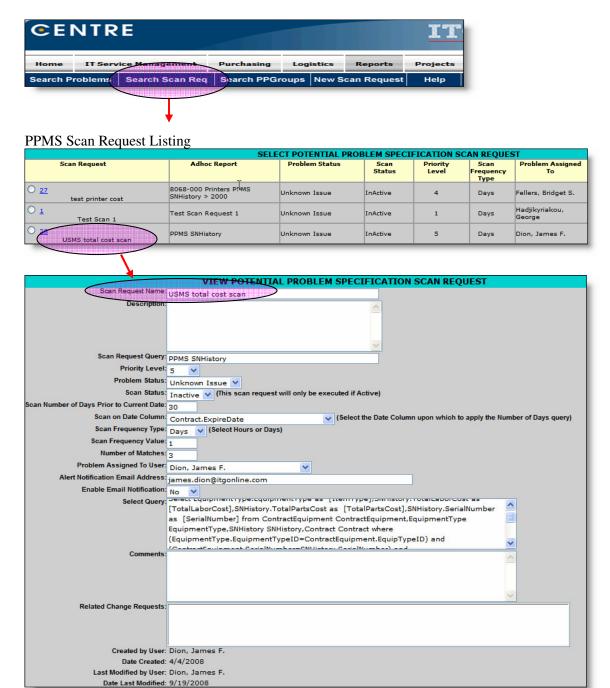
CENTRE Evidence: As in the Project Planning process area, **CENTRE** provides direct evidence for the recordation of anticipated risks, risk mitigation plans, level and intensity of risk among other recorded data. Notwithstanding the human factor of monitoring risk, the CENTRE Potential Problem Management subsystem of the Problem Management module permits a staff member with adequate access rights to set up risk scenarios that if materialized would generate alerts.

CENTRE generated alerts may be communicated to a designated recipient via email or SMS messages.



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The alerts can be scheduled for "Potential Problems/Risks:"



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In the example above the user has defined as a potential problem/risk, the presence of new incidents for devices where the historical total cost of parts exceeds \$2,000.00. The prescribed mitigation in the task segment of the Project would be to replace such devices.

The potential Problem/Risk could be the change of the status in any field in **CENTRE** thereby generating an alert notifying the relevant stakeholder(s).

SP 1.4 Monitor the management of project data against the project plan.

CENTRE Evidence: All Project data is managed by **CENTRE** modules.

SP 1.5 Monitor stakeholder involvement against the project plan.

CENTRE Evidence: As seen in previous Process Areas stakeholders are identified at the planning stage:

At the Contract level

				EC	OIT CONTR	ACT
· ·	ng fields are indicated	with an aster	isk *			
*Contract Number:	8032-000			PPM Rate:		
*CO:	Company CO			OPPM Rate:	143	
	703-888-5678	Ext:	1	Sunday Rate:	0	
*Customer Name:	CIA		٧	Minimum:	2	
COTR:				Billable:	NO	F
COTR Phone:		Ext:	1	Travel:	✓ YES	
COTR Email:	Darr.Poters@BCom.c	om		Taxable:	□ NO	
BDM:	Reilly, Thomas A.	\	/	Non-Revenue:	□ NO	*Res
Customer Contract #:				CI RFC Required:	□ NO	*(
Contract Modifications:	0				✓ YES	
TAM:	John Smith/Adrian Hi	icks		*Contract Status:	Active	~
	Hwang, Regina Y.K.			Last Modified:	1/29/2008 2:12:38 PM	

At the Project Level

Stakeholders:	
George Ceely	^
Jason Dudley	
Sheri Mendez (LMCO)	
Rod Carter (LMCO)	
Travel teams	

At the Task Level

Task Manager:		
Task Status:	Completed	
Order Number:		
Address:	625 Silver SW, Suite 100	
City/State/ZipCode:	Albuquerque, NM 87102	
POC:	Elizabeth Ramires	
POC Phone:	505-346-7349 Ext:	
Email Address:		
Pager:		
Pager Address:		
Subtask Order:		
Item Delivery Date:	= =	
Item Delivery Type:	Select ShipMethod	
Comments:		
Green team:		^
08/08		
This office has be	een rescheduled due to the LMCO project	
	ease note the *Subtask start date and new	
Projected end da		
***********	i.e.	
9/10 (12 PM)-		~

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Stakeholder monitoring is accomplished at the Task Level as resources:

EDIT	RESOU	RCE HOURS FOR TA	ASK [Albuquerque]	
		Total Task Estimate Hours	:d 1	Fotal Budgeted Resource Hours	Total Actual Resource Hours
		22.00		0	42.00
			Re	eted Resource Hours eset All Values To 0	
Bardwell, Charlene		8		0	21.00
Bronson, Curtis		8		0	0
Destefani, Robert		8		0	21.00

As well as at the Timesheet Level:



		EDIT 1	TME S	HEET	FOR [Ceely,	Georg	je B.	1579]								
Period: 9/16/2008 to 9/3	0/2008																	
Project	Labor Code	Task	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Task Hours
			9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30	
CLIN V Desktop Refresh - 8068-005		Project implementation (Admin Hours)	3.5	1	1.5	1			1.5	1	0.5	1.25	0.5				1.5	13.25
		*Project stoppage time (HHQ EOY Processina)																0
		*HUD HQ 7th & 8th																0
		Total Hours Worked:	3.5	1	1.5	1	0	0	1.5	1	0.5	1.25	0.5	0	0	0	1.5	13.25

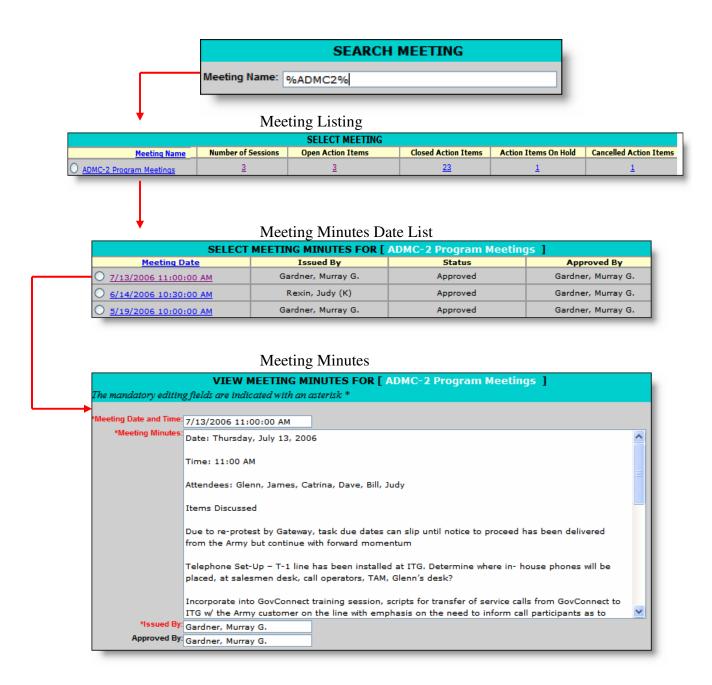
And at the Action Item Level:

			SELECT ACTION I	TEM FOR [ADMC-2 Program	n Meetings		
ID	Start Date	Issue	Suggestions	Action Items	Owner	Outcome	Due Da
O <u>160</u>			DaveW and BillH will work with Dave Cohen to complete this task	2: This task has been broken into a separate Action Item for each subcontractor agreement. Progress will be tracked on the Progress will be tracked on the Workbook located at (VItg_central_common\Team Halladay\Contracts\8.103-999 aDMC-2\Project WorkbookGG 1: 06/14/05 - Glenn to call Prism Pointe and get them to send their to us. BillH says when we have that.	Wilson, David M.	2: This task has been broken into a separate Action Item for each subcontractor agreement. Progress will be tracked on the Workbook located at \(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	6/30/2: 1:14:15
O <u>180</u>	6/14/2006 3:42:45 PM	Establish process for live transfer of service sales calls from GovC to ITG.	•	1: 06/14/06 - Dave to set up meeting with GovC to define situations requiring live transfer to a sales person at ITG, and establish the flow of activity when such situations ariseGG	Wilson, David M.	08/31/06: This issue was not addressed at the lunch&learn on Aug 29. The process has not been and Mike are discussing and will let me know how they want it set upGG 07/13/06: Dave adding to training a clear explanation for GovC salt tops to the control of th	6/30/20

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SP 1.6 Periodically review the project's progress, performance, and issues.

CENTRE Evidence: Direct evidence provided by **CENTRE** for project reviews can be found in the Meeting Management module:

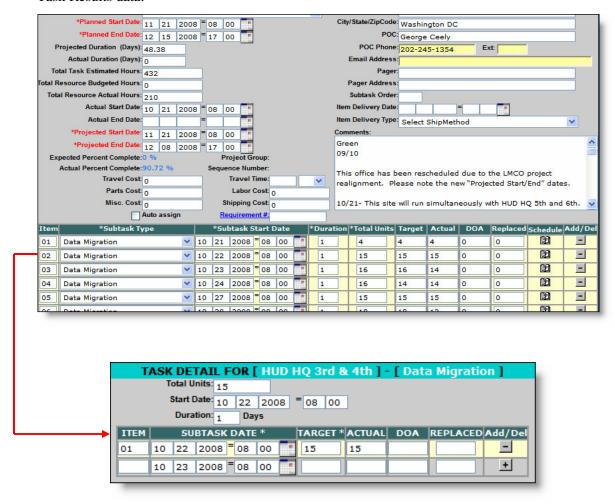


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SP 1.7 Review the accomplishments and results of the project at selected project milestones.

CENTRE Evidence: Project reviews contained in meeting minutes as seen above and Task completion records are the direct evidence provided for this Specific Practice.

Task Results data:



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SP 2.1 Collect and analyze the issues and determine the corrective actions necessary to address the issues.

CENTRE Evidence: Corrective action related records are collected at the Change Management Level and are provided as direct evidence for this Specific Practice.

С	Change Request ID:								
	hange Request Name:								
	Proposed Change:								
al Non-Confe	ormance/Justification:								
	Root Cause:								
	Actions Summary:								
	Category: Select	·	Issued E	y: Select					
	Change Type: Select		Approved B	Select V a L L					
	Change Authority: Select	<u> </u>	✓ Assigned T	Select	^	otion Tu	no:		
	and the second s			Select	, A	ction ty	pe: Corre	ective Ac	tion
	Action Type: Correct	ive Action		y: Select	→ ∟	_			
	rity Approval Required Sele V		Approved by Security Offic	Select					
	roving Security Office Select		Approved by Security Office	Sele Y					
	letion Date From Date:	<u> </u>							
	mpletion Date To Date:		date, both "Start" and "End" date values need t	o be entered.					
	late Issued From Date:	-							
D			date, both "Start" and "End" date values need t	o be entered.					
	Date Issued To Date:								
Date	Approved From Date:	For one specific	date, both "Start" and "End" date values need t	o be entered.				J	
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orre	cuve Action	Change Red	quest Records	T CHANCE BEOM	IFOT				
hange	Change Request Name	Change Authority	SELEC Proposed Change	T CHANGE REQU		sued Date	Issuer	Approved	Priority
equest	change requese name	Change Additioney	Proposed change		ļ.	Juca Dute	133461	Date	11101111
#			Define all items deemed as "Configuration Item	ns" and make them					
22	Configuration Items	Best Practices MRB	available through a drop down menu selectio appropriate change authority for each item an	n. Further, define the		12/11/2006 0:22:36 AM	Angelakis, Michael P.	12/20/2006 4:03:26 PM	HIGH
			the "Change Authority" field. Permit the select	ion o					
	D: 1 11	Software Engineering MRR	Enable Contract, Project and Task screens to risks and related mitigations	rcord multiple potential	d 1	12/11/2006	Angelakis,	3/26/2007 10:24:36 AM	LOW
23	Risk Managment	Contrare Engineering with			1				
			Please update the selection of "Affected Depa	rtments" list with all the	e ,	0:34:39 AM 12/11/2006	Michael P.		
	Departmental Data Normalization		Please update the selection of "Affected Depa valid departments within ITG. Please use the	rtments" list with all the	e ,	0:34:39 AM 12/11/2006 2:51:54 PM	Angelakis, Michael P.	12/26/2006 11:56:55 AM	IMMEDIA:
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The resultant approved Change Request designated as "Corrective Action" is the direct evidence provided for compliance with this specific Practice:

SP 2.2 Take corrective action on identified issues.

CENTRE Evidence: Please see evidence presented in SP 2.1.

SP 2.3 Manage corrective actions to closure.

CENTRE Evidence: Please see evidence presented in SP 2.1.

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