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, <u>www.sei.cmu.edu/cmmi/general/</u>)

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), <u>www.itgonline.com</u>, 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:

CENTRE - Document Control System (DCS)

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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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<u>CENTRE CMMI Specific & Generic Evidence Elements:</u>

CENTRE Measurement and Analysis

SP 1.1 Establish and maintain measurement objectives that are derived from identified information needs and objectives.

CENTRE Evidence: The direct evidence available to satisfy this Specific Practice is derived from the Measurements and Analysis module and is produced either from predefined reports or from the CENTRE Ad-Hoc Report Generator.

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SP 1.2 Specify measures to address the measurement objectives.

CENTRE Evidence: Project measurements and objectives are identified in Projects particulars. Performance related measurements are identified in CENTRE reports and are submitted as direct evidence of compliance for this Specific Practice.

SP 1.3 Specify how measurement data will be obtained and stored.

CENTRE Evidence: Project data is obtained from Project, Supply Chain, ITSM, Requirements and Change Management records. All Project data is stored in CENTRE modules. All Project relevant records are direct evidence in support of this Specific Practice.

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SP 1.4 Specify how measurement data will be analyzed and reported.

CENTRE Evidence: Measurement data generally is subject to Project requirements. For Software Engineering type projects **CENTRE** provides direct evidence that is in line with industry standards. **CENTRE** measures programmer productivity, quality of workmanship and timeliness.

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There are many additional industry standard measurements for software engineering available as direct evidence in compliance with this Specific Practice.

SP 2.1 Obtain specified measurement data.

CENTRE Evidence: Direct evidence related data is usually captured by **CENTRE** modules in the course of Project performance.

SP 2.2 Analyze and interpret measurement data.

CENTRE Evidence: Data is automatically analyzed at various stages of Project performance, including financial analysis,

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SP 2.3 Manage and store measurement data, measurement specifications, and analysis results.

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CENTRE Evidence: All direct evidence data is managed in and stored by CENTRE modules.

SP 2.4 *Report results of measurement and analysis activities to all relevant stakeholders.*

CENTRE Evidence: Direct evidence of reporting measurement and analysis activities to stake holders is found in the **CENTRE** Meeting Management module.

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Meeting Action Items

ID	Start Date	Issue	Suggestions	Action Items	Owner	Outcome	Due Da.
O <u>160</u>	4/24/2006	Establish formal subcontract with: GovConnection, Priam Pointe, LGB, Bethune- Cookman, Four Points	DaveW and BillH will work with Dave Cohen to complete this task	2: This task has been broken into a separata Action Item for each Progress will be tracked on the Action page of the Sroject Witg_centralicommon\Team Hallday\Contract\Silon2-999 ADMC-21Project WorkbockGG Pointe and get them to send their version of aubcontract agreement built.	Wilson, David M.	2: This task has been broken into a separate Action Item for each progress will be tracked on the Action page of the Project Witg_central\common\Team Heiledev\Contect\Big018-999 ADMC-2\project Workbock. This subcontract are in place	6/30/20 1:14:10
) 180		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 ==	Wilson, David M.	08/31/06: This issue was not addressed at the lunch&learn on Aug 25: 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 set - repervised	6/30/200

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