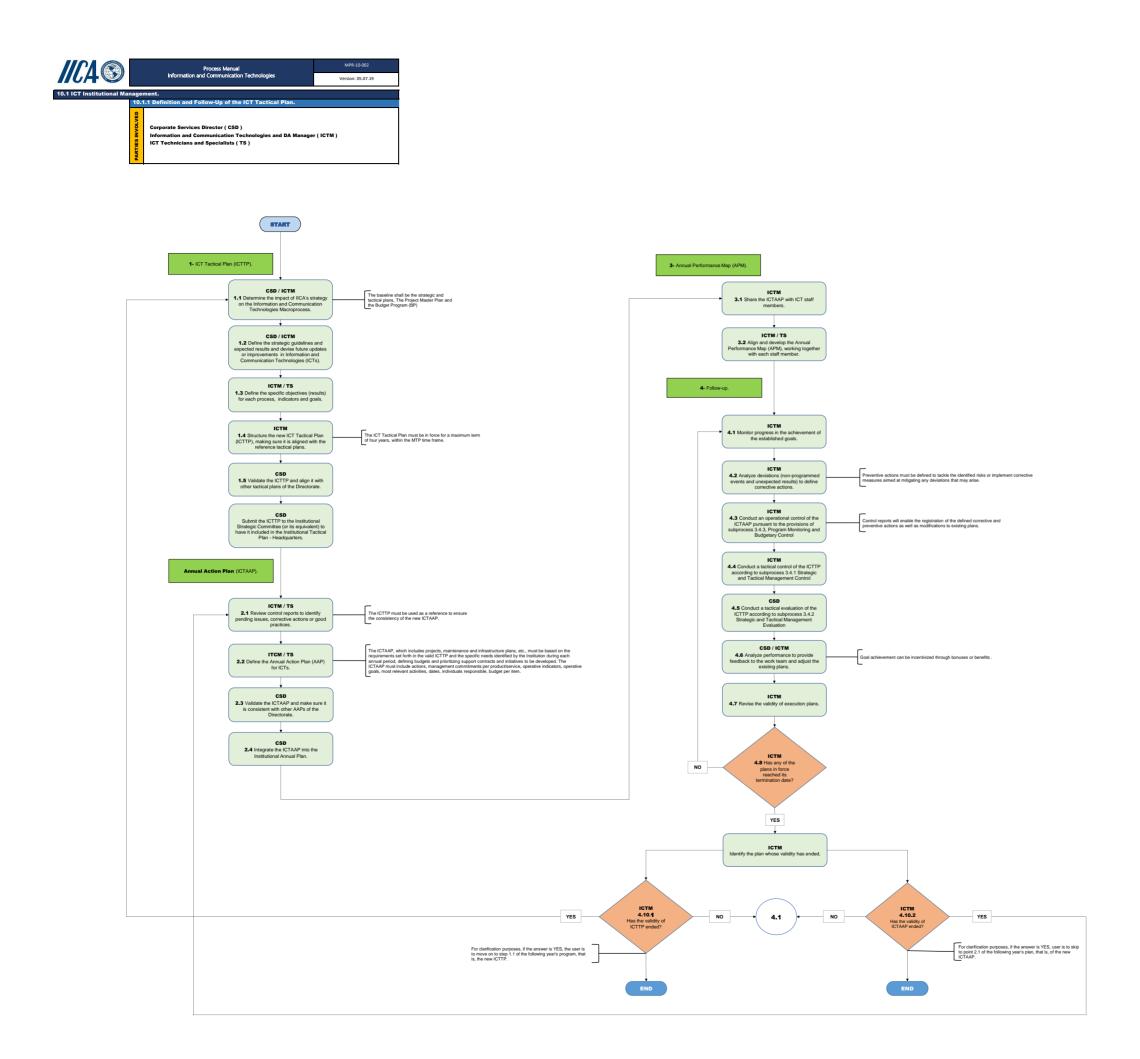
	Process Manual	MPR-10-002
//CA 🏵	Information and Communication Technologies	Version: 05.07.19
Macroprocess		
10 Information and Communic	tion Technologies (ICTs).	
Objective	nsure that the Institute has access to the best information technology, to carry out effect rocesses, promoting collaborative work, applying innovative criteria and optimizing the a	
Scope	emispheric level. echnical-regulatory actions at a hemispheric level. entralization at strategic levels and at Headquarters. artial decentralization at tactical and operational levels, per region and country.	
Inflows	Processes	Outflows
	ICTs Institutional Management.	Suitable technological architecture adapted to the collaborative and high- productivity principles of the institution.
		Databases effectively stored and availabl
nstitutional development needs, both strategic and tactical.	Application Operations.	Innovative applications, implemented and available.
Requests for computer services. ncident detection through monitorin	Infrastructure Operations.	Infrastructure and networks adequately maintained and operational.
systems.		Guaranteed integrity and safeguarding o the technology information flow.
	Cross-Cutting Management.	Inventory of technological equipment to guide decision-making and actions.



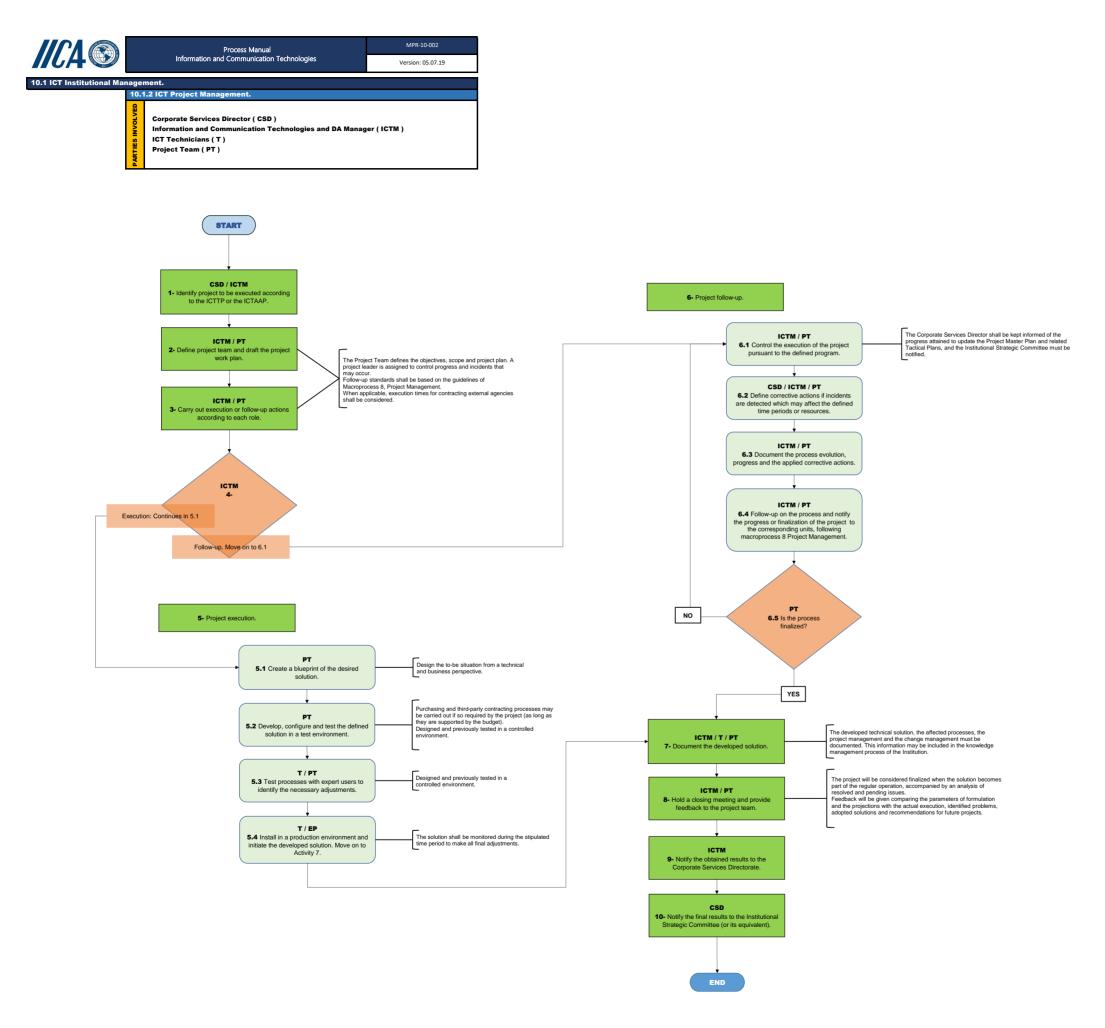
IILA	Information and Communication Technologies	Version: 05.07.19	
	Process		
10.1 ICTs Institutional Manager	nent.		
Objective	Ensure that all the strategic, core and support macroprocesses of the Institution employ information and communication technologies in keeping with a principle of efficiency innovation and continuous improvement.		
Scope	Hemispheric level. Technical-regulatory actions at a hemispheric level. Centralization at strategic levels and at Headquarters. Partial decentralization at tactical and operational levels, per region and country.		
Specific policies and rules	<ol> <li>The ICT Tactical Plan (ICTTP) shall be valid for a period of no more than four years and must be validated by the Institutional Strategic Committee or its equivalent.</li> <li>The ICTTP must be revised every two years in order to reassess its validity or make any necessary amendments or updates.</li> <li>The follow-up of projects executed under the responsibility of the Information and Communications Technologies and Digital Agriculture Division must comply with the requirements set forth in the Project Master Plan, the ICTTP and the ICTAAP.</li> <li>The Information and Communication Technologies and Digital Agriculture Division must guarantee that all policies and regulations regulating the development and use of Information and Communication Technologies are correctly updated.</li> <li>The Information and Communication Technologies and Digital Agriculture Division must ensure the continuity of all services aimed at supporting operational and cross-cutting management processes.</li> </ol>		
Computer systems	Office applications - Project control - E-mail, Web browsers.		
Indicators	<ul> <li>Ongoing projects and Plans: Percentage of actual progress in relation to percentage of programmed progress lower than or equal to 5%.</li> <li>Actual execution time in relation to programmed execution time.</li> <li>Executed budget in relation to estimated budget.</li> <li>No incidents resulting from inconsistencies in current policies or regulations.</li> </ul>		
	Process	Subprocess	
	10.1 ICT Institutional Management.	10.1.1 Definition and Follow-Up of the ICT Tactical Plan. 10.1.2 ICT Project Management. 10.1.3 ICT Contract Management. 10.1.4 Maintenance of ICT Policies and Guidelines.	

IICA 🤍	Information and Communication Technologies	Version: 05.07.19
Subprocess		
10.1.1 Definition and Follow-Up	of the ICT Tactical Plan.	
<b>Objective</b> Define the Information and Communication Technologies vision in keeping with the institutional strategy, to ensure that the defined actions guarantee the provision of value- added products.		
	Background Information	Reference Material
inputs	• Existing ICT Tactical Plan. • Existing Annual Action Plan.	<ul> <li>Strategic Plans (10-year Strategic Plan, 4-year Medium-term Plan MTP)</li> <li>Tactical Plans (Regional, National, Institutional at Headquarters, Budget Plan)</li> <li>Project Master Plan</li> <li>Reference control reports.</li> <li>Applications inventory.</li> <li>Infrastructure inventory.</li> <li>Reference documents defined by the subprocess support systems.</li> </ul>
Outcomes         Updated ICT Tactical Plan, integrated into the Institutional Tactical Plan - Headquarters.           Updated Annual Action Plan.         Defined Annual Performance Maps.		

Process Manual



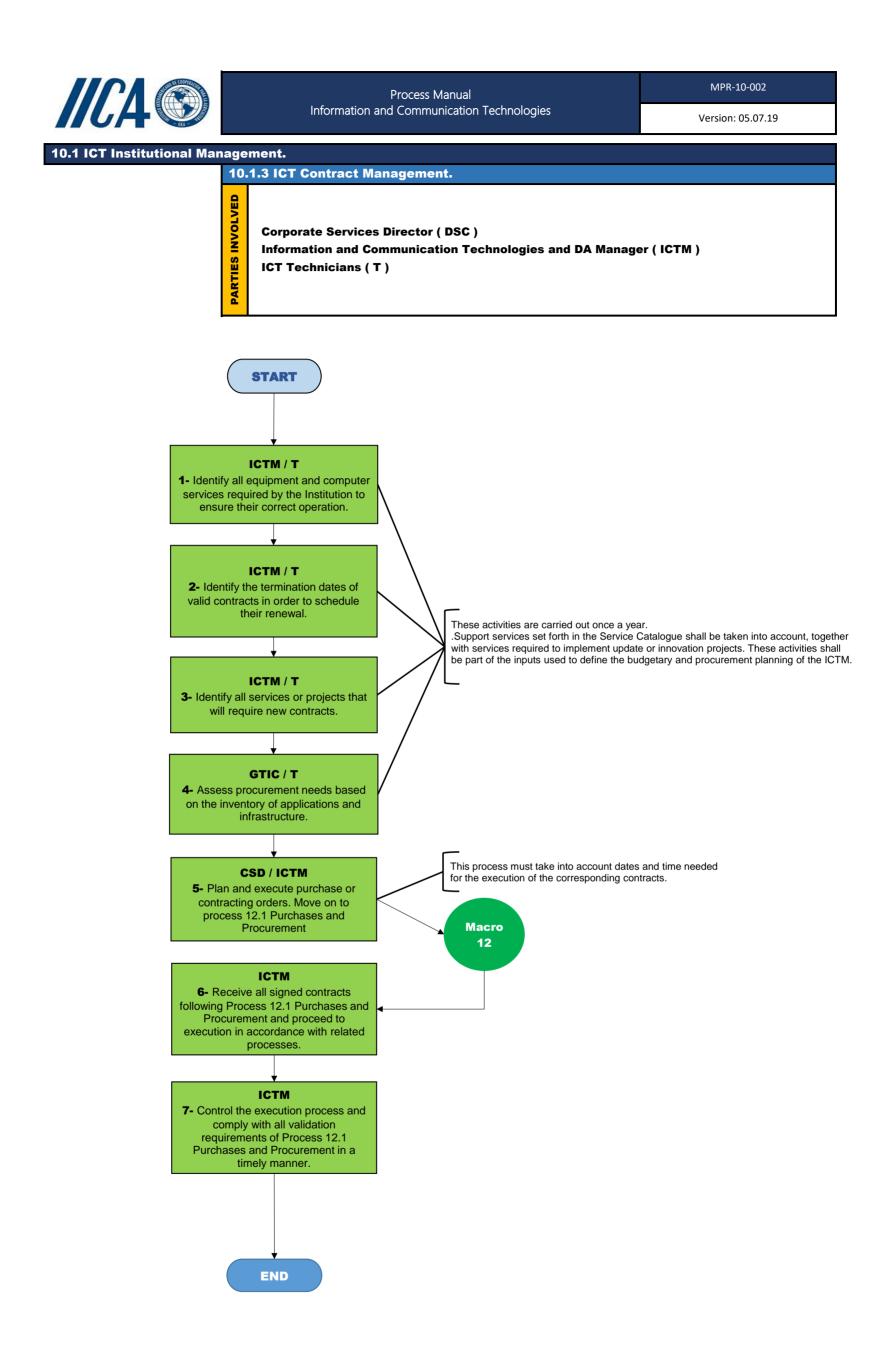
////	Process Manual Information and Communication Technologies	MPR-10-002 Version: 05.07.19
Subprocess		
10.1.2 ICT Project Managem	ent.	
Objective	Provide IICA with Information and Communication Technologies aligned with the institutional strategy, developed through adequately created and controlled projects.	
	Background Information	Reference Material
Inputs	<ul> <li>Projects based on the ICTTP and ICTAAP.</li> <li>Needs identified through institutional operations.</li> </ul>	<ul> <li>Tactical Plan - ICTTP.</li> <li>Reports generated through the cross-cutting management process.</li> <li>Procedures Manual for the Procurement of Goods and Services.</li> <li>Annual Action Plan – ICTAAP.</li> <li>Financial regulations.</li> <li>Reference documents defined by the subprocess support systems.</li> </ul>
Outcomes	Technological architecture in keeping with the collaborative, high-productivity principles of the Institution. Innovative applications, implemented and available.	





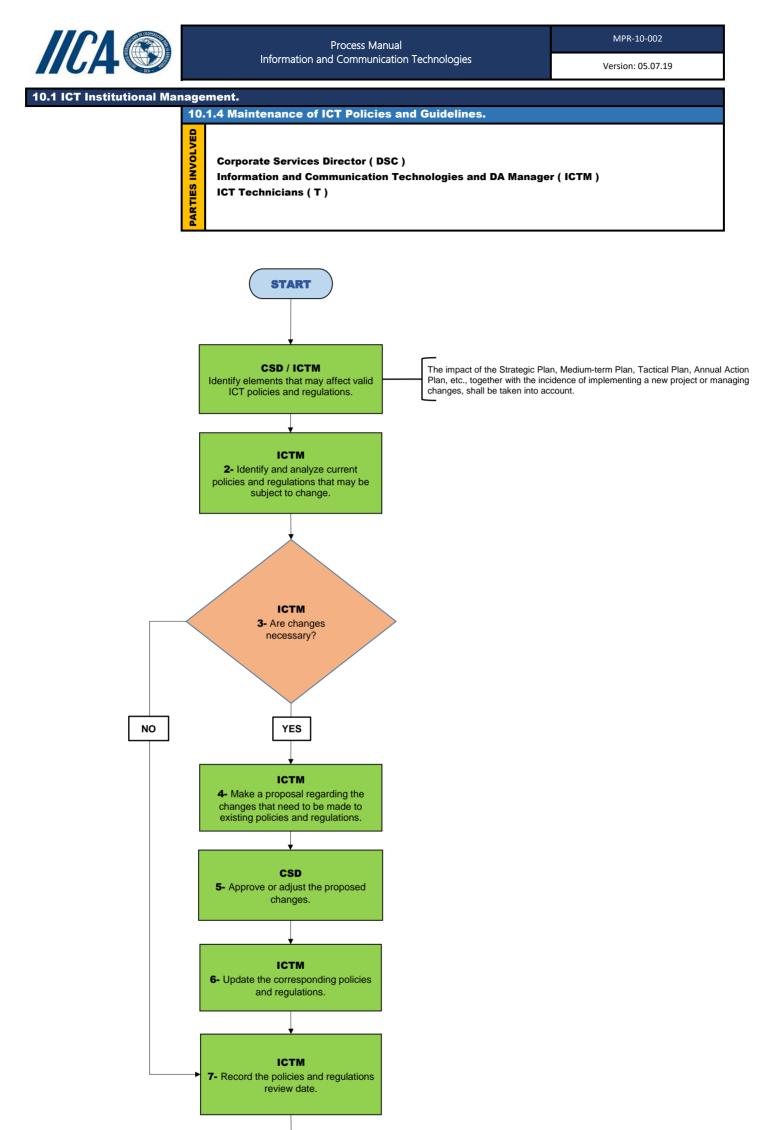
IILA®	Information and Communication Technologies	Version: 05.07.19
Subprocess		
10.1.3 ICT Contract Managemer	nt.	
Objective Ensure that all Information and Communication Technologies equipment and services required by IICA are readily available, in order to guarantee the continuous operation of the Institution's applications and infrastructure.		
	Background Information	Reference Material
Inputs	<ul> <li>Equipment and service requirements identified in the ICT Tactical Plan.</li> <li>Equipment and service requirements identified through institutional operations.</li> </ul>	<ul> <li>ICT Tactical Plan.</li> <li>Reports generated through the cross-cutting management process.</li> <li>Procedures Manual for the Procurement of Goods and Services.</li> <li>Project Master Plan.</li> <li>Service catalogue.</li> <li>Reference control reports.</li> <li>Application inventory.</li> <li>Infrastructure inventory.</li> <li>Reference documents defined by the subprocess support systems.</li> </ul>
Outcomes	Support equipment and services adapted to institutional needs.	

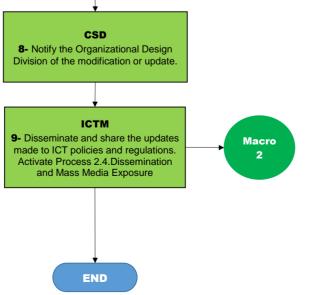
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////A 🚱	Process Manual Information and Communication Technologies	MPR-10-002 Version: 05.07.19
Subprocess		
10.1.4 Maintenance of ICT Polic	cies and Guidelines.	
Objective	Ensure that all policies and regulations involving information and communication tec strategic, tactical and operational plans.	hnologies are in keeping with institutional dynamics in regards to compliance with
	Background Information	Reference Material
Inputs	ICTM general and specific policies and rules (valid).	<ul> <li>Strategic Plans (10-year Strategic Plan, 4-year Medium-Term Plan MTP)</li> <li>Tactical Plans (Regional, National, Institutional at Headquarters, Budget Plan)</li> <li>Project Master Plan</li> <li>Reference control reports.</li> <li>Application inventory.</li> <li>Infrastructure inventory.</li> <li>Reference documents defined by the subprocess support systems.</li> </ul>
Outcomes	Updated general and specific policies and rules for the ICTM.	



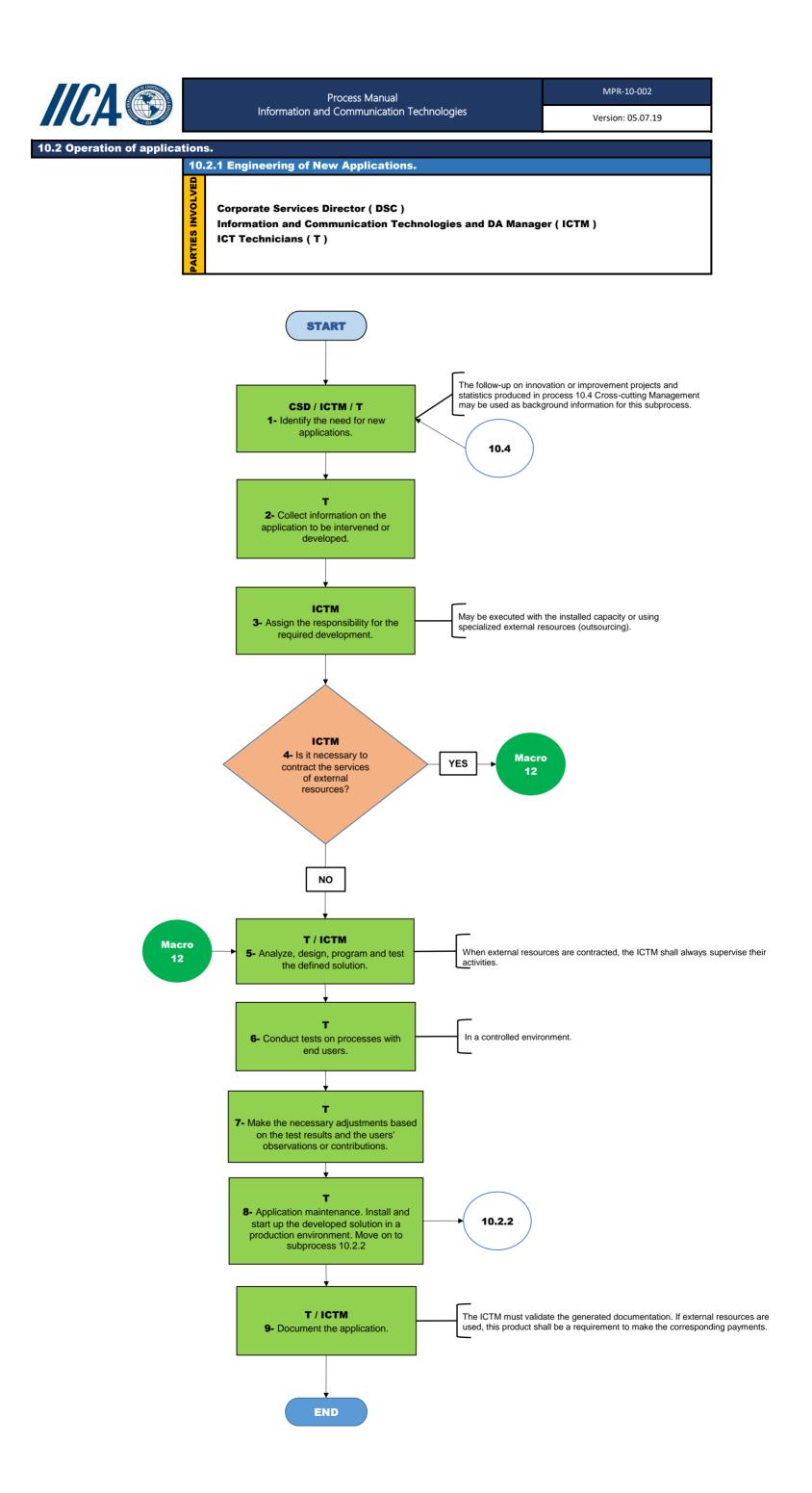




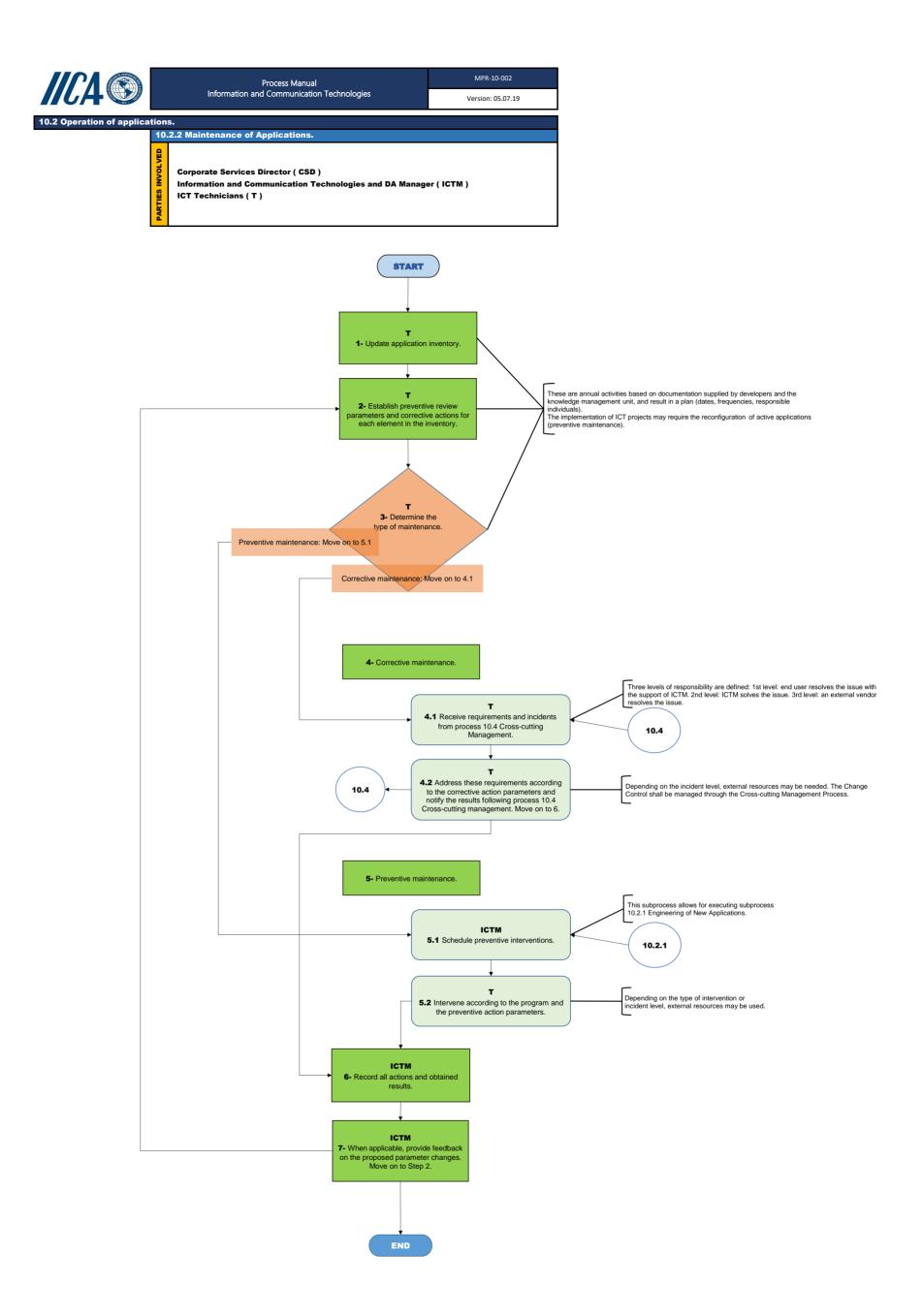
	Process Manual	MPR-10-002		
//CA 🏵	Information and Communication Technologies	Version: 05.07.19		
	Process			
10.2 Application operations.	10.2 Application operations.			
Objective	Ensure that all applications installed at IICA are functional and available as required to maintain a continuous institutional operation.			
Scope	Hemispheric level. Technical-regulatory actions at a hemispheric level. Centralization at strategic levels and at Headquarters. Partial decentralization at tactical and operational levels, per region and country.			
<ol> <li>The ICTAAP shall provide the guidelines regarding compliance levels of programmed interventions and application availability goals.</li> <li>This process shall ensure the correct operation of applications, anticipating any need for expansion, replacement or renewal that may result in improvement projects for the ICT Institutional Management process.</li> <li>The need for support provided by external resources shall be considered. Contracting times must also be taken into account to guarantee the continuity of institutional operations.</li> <li>Cybersecurity initiatives implemented throughout the process must guarantee the safeguarding of information against intrusions from parties external to IICA.</li> <li>Three levels of responsibility are defined to address these tasks:         <ul> <li>1st level: end user resolves the issue with the support of ICTM.</li> <li>2nd level: ICTM resolves the issue directly.</li> <li>3rd level: issue is resolved by an external supplier.</li> <li>All level 3 incidents and requirements must be revised to determine whether corrective actions are to be taken or large-scope changes made.</li> </ul> </li> </ol>				
Computer systems	systems Monitoring systems.			
Indicators	<ul> <li>Applications installed with no errors after delivery.</li> <li>Number of level 2 and level 3 incidents solved in a timely manner in relation to the total number of incidents received at said levels.</li> <li>Number of incidents received by an end user in relation to the total number of incidents received.</li> </ul>			

Process	Subprocess
	10.2.1 Engineering of New Applications.
10.2 Application operations.	10.2.2 Maintenance of Applications.
	10.2.3 Maintenance of Web and Cloud Developments.

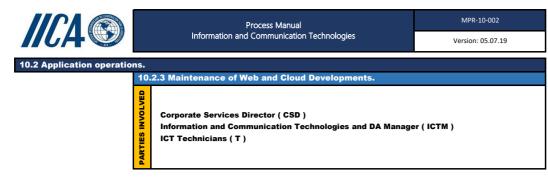
<i>//(C</i> 4 🕥	Process Manual Information and Communication Technologies	MPR-10-002 Version: 05.07.19
Subprocess		
10.2.1 Engineering of New App	lications.	
Objective	Ensure the timely detection and efficient implementation of additional developments, generated as a result of projects or incidents detected in the Cross-cutting Management process.	
	Background Information	Reference Material
Inputs	<ul> <li>Preventive intervention requirements (established by developers)</li> <li>Corrective action needs (based on incident monitoring)</li> </ul>	<ul> <li>Application inventory.</li> <li>Documentation generated by developers (internal or external).</li> <li>Procedures Manual for the Procurement of Goods and Services.</li> <li>Service Catalogue.</li> <li>Statistical report from Process 10.4 Cross-cutting Management.</li> <li>Reference documents defined by subprocess support systems.</li> </ul>

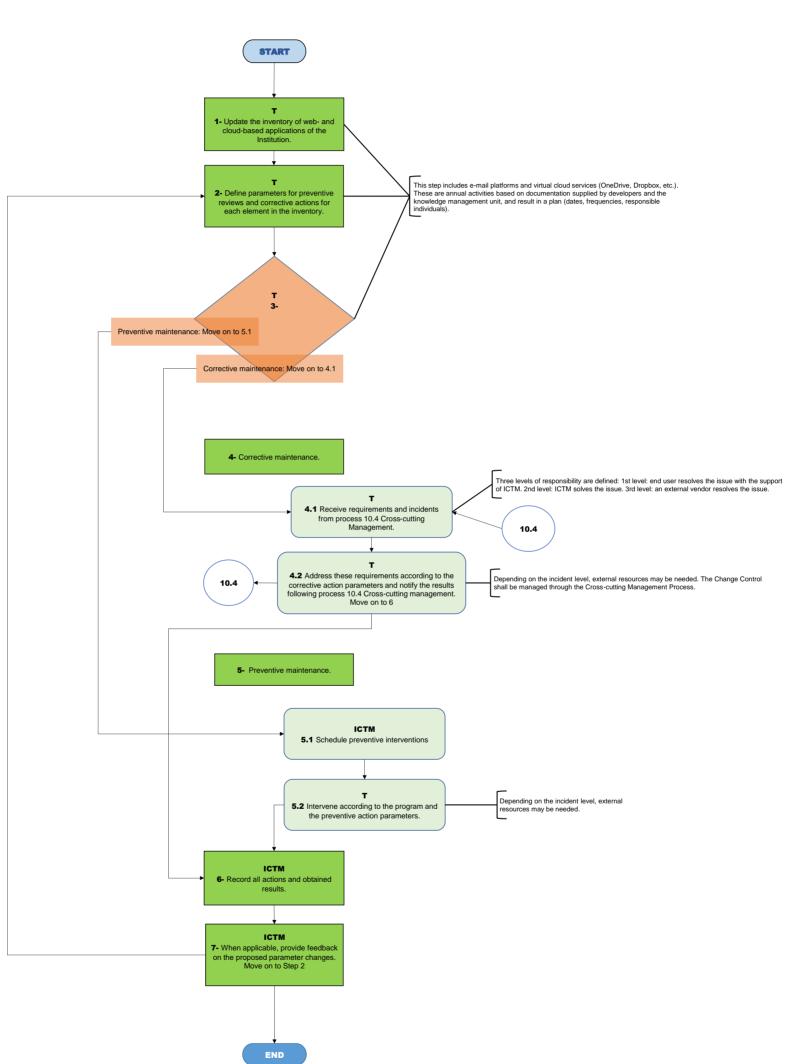


////	Process Manual Information and Communication Technologies	MPR-10-002	
ПОЛ	Ĵ	Version: 05.07.19	
Subprocess			
10.2.2 Maintenance of Applicati	ons.		
Objective	Objective Ensure that all applications installed at IICA are up-to-date and capable of providing the functionality and availability required by the processes they support.		
	Background Information	Reference Material	
Inputs	<ul> <li>Incidents detected in the Cross-cutting Management process regarding application development (levels 2 and 3).</li> <li>Identification of needs to modify installed applications (as a result of the implementation of innovation projects or improvements).</li> </ul>	<ul> <li>The ICTAAP shall establish the guidelines for programmed interventions and application availability goals.</li> <li>Inventory of applications installed at IICA.</li> <li>Documentation generated by developers (internal and external).</li> <li>Procedures Manual for the Procurement of Goods and Services.</li> <li>Service catalogue.</li> <li>Reference documents defined by subprocess support systems.</li> </ul>	
Outcomes	Installed applications at IICA with a level of availability that is equal to or higher than the current level.		



////	Process Manual Information and Communication Technologies	MPR-10-002 Version: 05.07.19
Subprocess		
0.2.3 Maintenance of Web an	d Cloud Developments.	
Objective	Ensure that all web and cloud applications acquired or developed at IICA are updated and in suitable condition to offer the required availability and functionality.	
	Background Information	Reference Material
Inputs	<ul> <li>Incidents detected in the Cross-cutting Management process related to web and cloud applications.</li> </ul>	<ul> <li>Inventory of web and cloud applications.</li> <li>Documentation generated by developers (internal or external).</li> <li>Procedures Manual for the Procurement of Goods and Services.</li> <li>Reference documents defined by the subprocess support systems.</li> </ul>
Outcomes	Installed applications at IICA with a level of availability that is equal to or higher than the current level.	



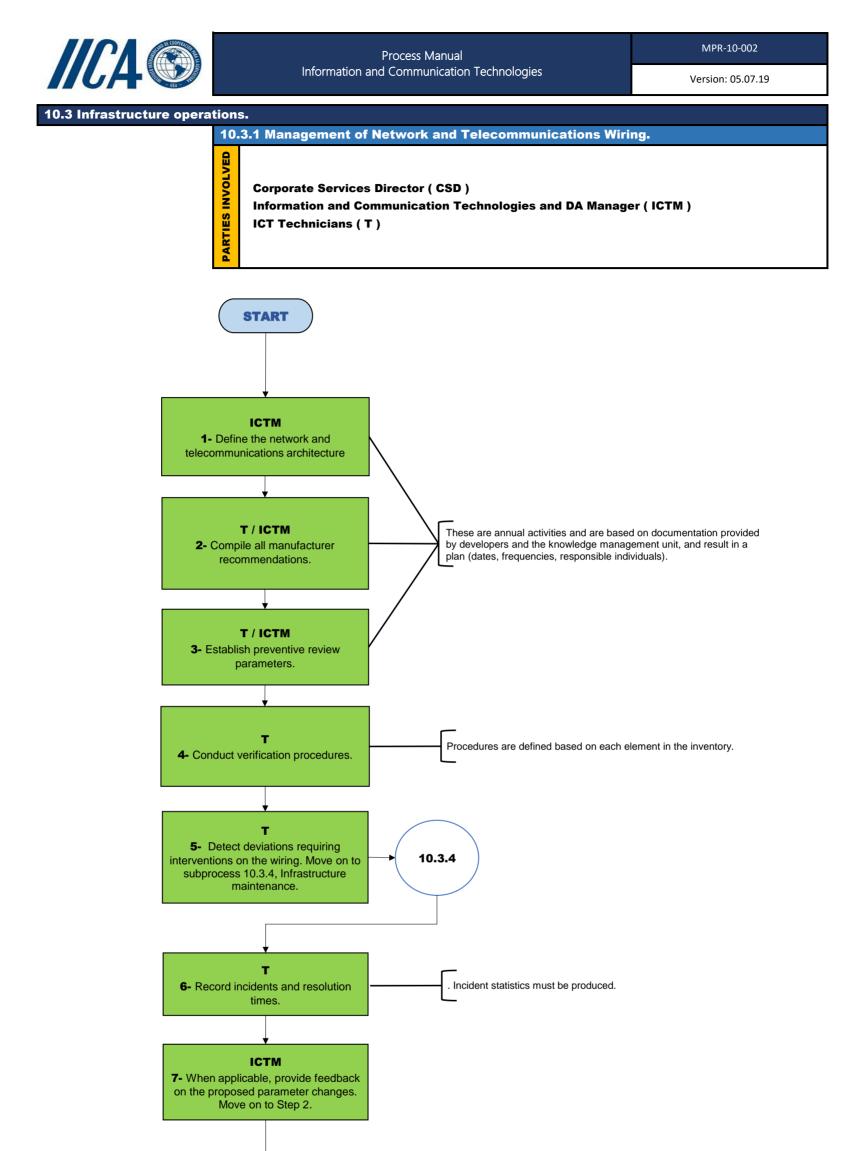




<i>IIC</i> A☺	Process Manual Information and Communication Technologies	MPK-10-002		
		Version: 05.07.19		
	Process			
10.3 Infrastructure Operations.				
Objective	Ensure that all infrastructure installed at IICA is functional and available as required to maintain a continuous institutional operation.			
8cope	Hemispheric level. Technical-regulatory actions at a hemispheric level. Centralization at strategic levels and at Headquarters. Partial decentralization at tactical and operational levels, per region and country.			
Specific policies and rules	<ol> <li>The ICTAAP shall provide the guidelines regarding compliance levels of programmed interventions and infrastructure availability goals.</li> <li>This process shall ensure the correct operation of software and hardware, anticipating any need for expansion, replacement or renewal that may lead to improvement projects for the ICT Institutional Management process.</li> <li>The need for support provided by external resources shall be considered. Contracting times must also be taken into account to guarantee the continuity of institutional operations.</li> <li>4. Cybersecurity initiatives implemented throughout the process shall guarantee the safeguarding of information against intrusions from parties external to IICA.</li> <li>Three levels of responsibility are defined to address these tasks:</li> <li>Ist level: end user resolves the issue with the support of ICTM.</li> <li>2nd level: ICTM resolves the issue directly.</li> <li>3rd level: issue is resolved by an external vendor.</li> <li>All level 3 incidents and requirements must be revised to determine whether corrective actions are to be taken or wide-scope changes made.</li> </ol>			
Computer systems				
Indicators	<ul> <li>The infrastructure availability (telecommunications, system availability, servers, etc.) must be equal to or higher than 99%.</li> <li>Number of level 2 and level 3 incidents solved in a timely manner in relation to the total number of incidents received at said levels.</li> <li>Number of incidents received by an end user in relation to the total number of incidents received.</li> </ul>			

Process	Subprocess
	10.3.1 Management of Network and Telecommunications Wiring.
10.3 Infrastructure Operations.	10.3.2 Network Management.
10.5 Initiastructure Operations.	10.3.3 Telecommunications Management.
	10.3.4 Maintenance of Technology Infrastructure.

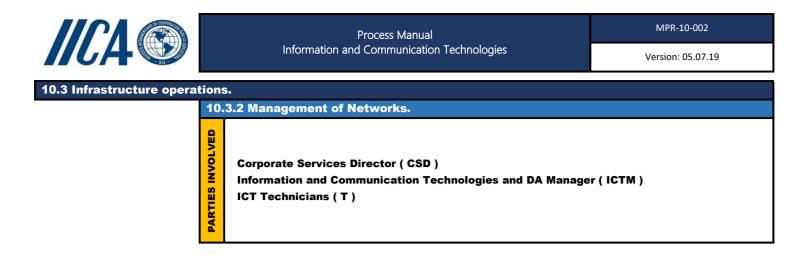
	Process Manual	MPR-10-002	
IICA 🏵	Information and Communication Technologies	Version: 05.07.19	
Subprocess	Subprocess		
10.3.1 Management of Networks and Telecommunications Wiring.			
Objective	Ensure that all wiring infrastructure is in optimal condition to support the flow of information that IICA must generate for voice and data transmission processes.		
	Background information	References	
Inputs	<ul> <li>Preventive intervention requirements (defined by the manufacturers), established based on relevant issues identified through failure monitoring or by internal users.</li> </ul>	<ul> <li>Inventory of network wiring.</li> <li>Documentation generated by manufacturers.</li> <li>Procedures Manual for the Procurement of Goods and Services.</li> <li>Service Catalogue.</li> <li>Reference documents defined by the subprocess support systems.</li> </ul>	

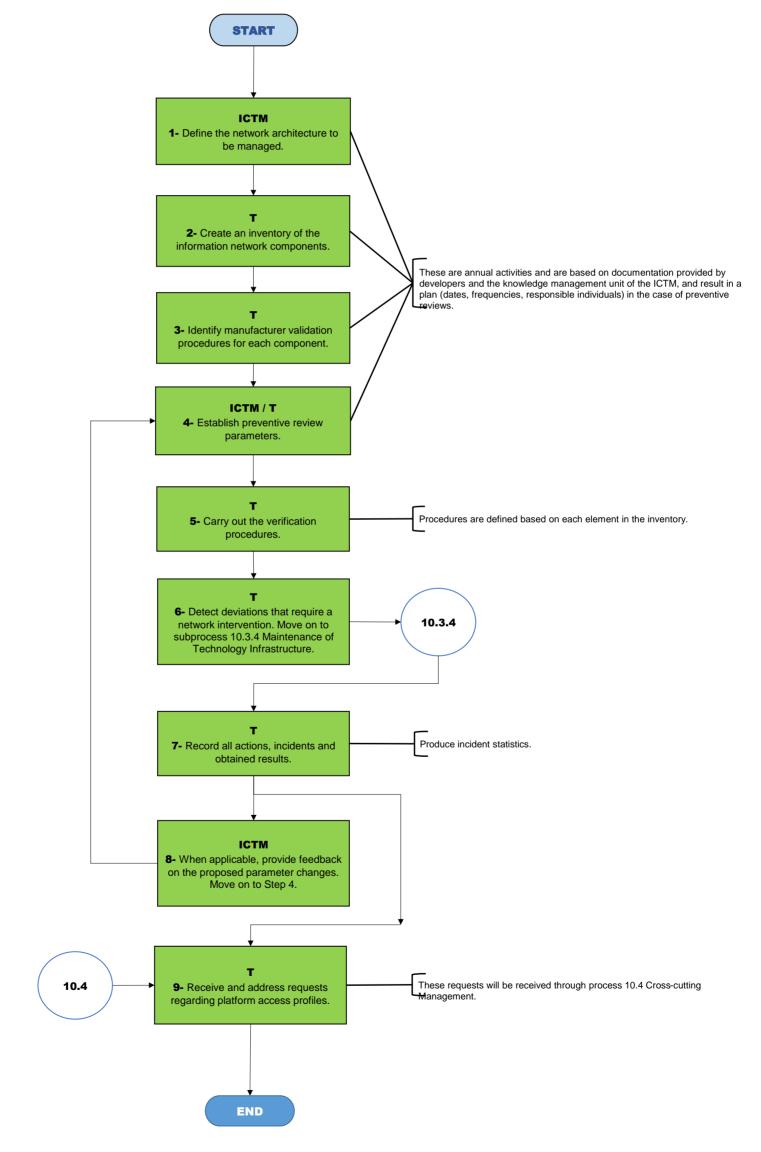




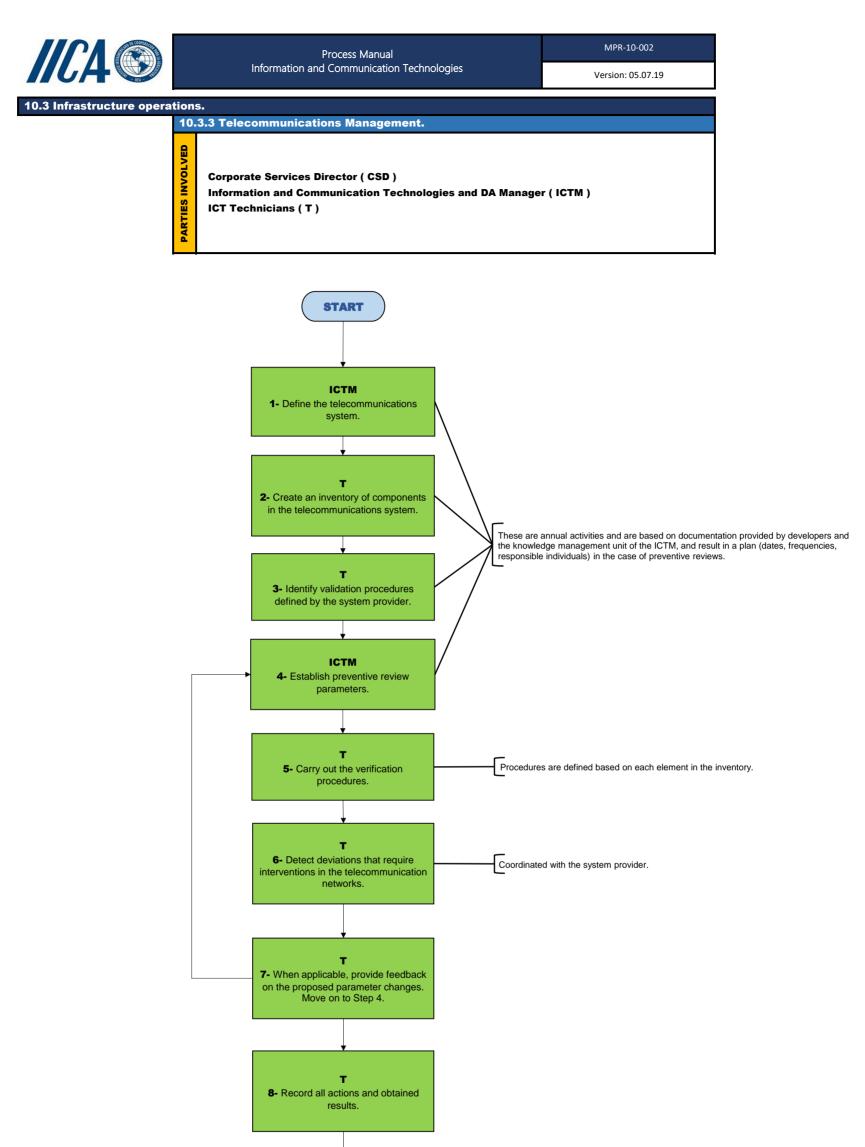


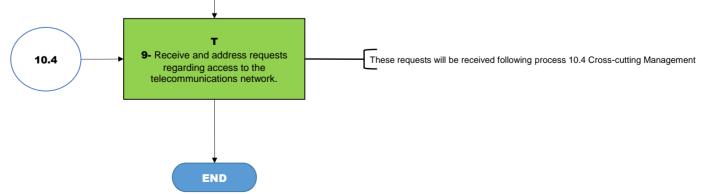
MPR-10-002 Process Manual Information and Communication Technologies Version: 05.07.19 Subprocess 10.3.2 Management of Networks. Ensure that all wiring infrastructure is in optimal condition to support the flow of information that IICA must generate for voice and data transmission processes, with the Objective required security levels. **Reference Material Background Information** Inventory of network wiring. Documentation generated by manufacturers. Inputs Preventive intervention requirements (defined by the manufacturers), established Procedures Manual for the Procurement of Goods and Services. based on relevant issues identified through failure monitoring or by internal users. Service Catalogue. Reference documents defined by the subprocess support systems. Data and voice networks correctly maintained and operational. Outcomes Guaranteed integrity and safeguarding of the Institute's technological information flow.





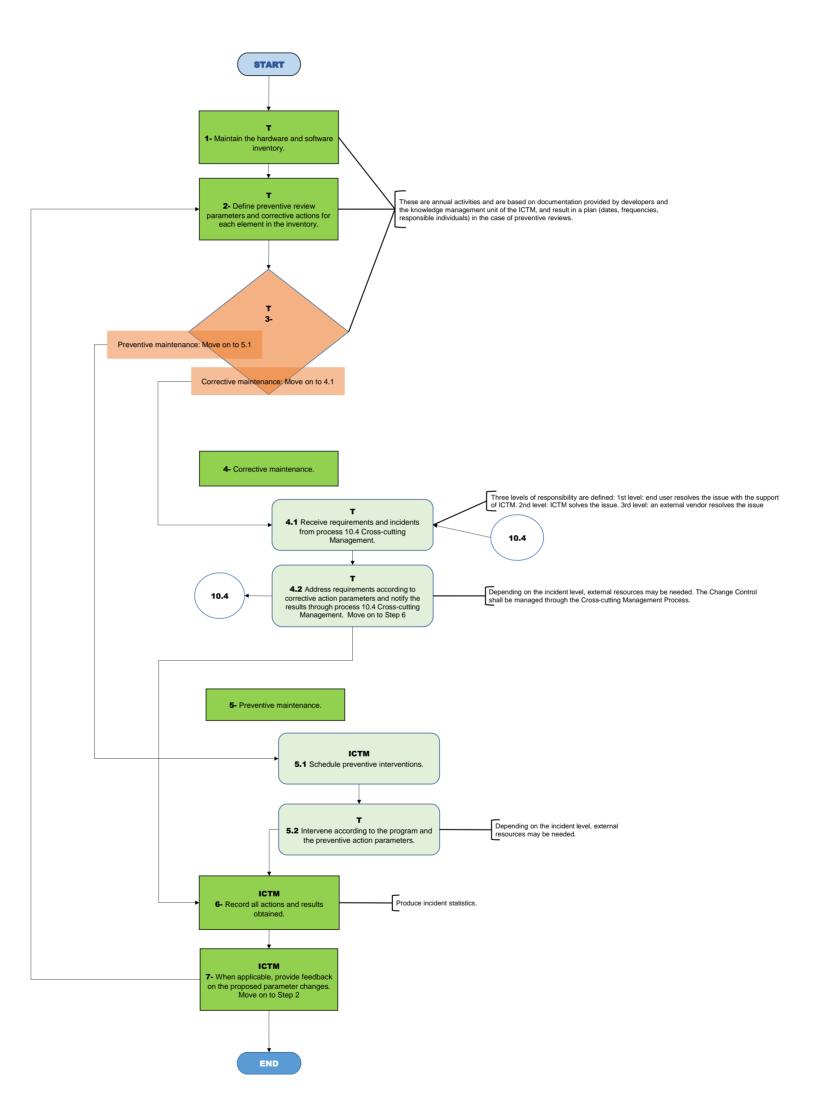
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IICA 🤍		Version: 05.07.19		
Subprocess	Subprocess			
10.3.3 Telecommunications Ma	10.3.3 Telecommunications Management.			
Objective	Ensure that the telecommunications service is operational, readily available, efficient and functional in order to support the voice communication needs of IICA.			
	Background Information	Reference Material		
Inputs	<ul> <li>Preventive or corrective intervention requirements (defined by the manufacturers), established based on relevant issues identified through failure monitoring or by internal users.</li> </ul>	<ul> <li>Logical network schemes and telecommunication components.</li> <li>Documentation generated by suppliers.</li> <li>Procedures Manual for the Procurement of Goods and Services.</li> <li>Service Catalogue.</li> <li>Reference documents defined by the subprocess support systems</li> </ul>		
Outcomes	Available telecommunication service with the functionality required to meet institutional demands.			





MPR-10-002 Process Manual Information and Communication Technologies Version: 05.07.19 Subprocess 10.3.4 Maintenance of Technology Infrastructure. Ensure that IICA's technology infrastructure is available and operates as required, through preventive or corrective interventions originated at administrative levels or based on Objective requests submitted by users. **Reference Material Background Information** Annual Infrastructure Plan. Incidents detected in the Cross-cutting Management process regarding Inputs Documentation generated by suppliers. technology infrastructure (levels 2 and 3). Procedures Manual for the Procurement of Goods and Services. Service Catalogue. Hardware and software inventory. Reference documents defined by the subprocess support systems. Outcomes Infrastructure and networks adequately maintained and operational.







	Process Manual Information and Communication Technologies	MPR-10-002 Version: 05.07.19
Process		
10.4 Cross-cutting Management.		

Objective	Ensure the continuity of macroprocesses and the promotion of continuous improvement initiatives through the effective management of relevant requirements, failure and/or incident resolution.
Scope	Hemispheric level. Technical-regulatory actions at a hemispheric level. Centralization at strategic levels and at Headquarters. Partial decentralization at tactical and operational levels, per region and country.
Specific policies and rules	<ol> <li>The ICTAAP shall set forth the guidelines for programmed interventions and infrastructure availability goals.</li> <li>This process includes corrective action requirements generated through operative processes or by the end user.</li> <li>The Service Catalogue shall determine the scope of ICT management. Any request unrelated to this document shall be deemed unacceptable for this process.</li> <li>The Service Catalogue must be updated each time new incidents are detected or corrective measures are applied.</li> <li>The Service Catalogue must be accessible (controlled inquires) for all IICA staff members.</li> <li>All of the addressed incidents and requirements shall be reviewed on a monthly basis to identify issues that require a large-scale intervention or modifications in the technology infrastructure, which in turn require improvement or innovation projects.</li> <li>The need for support provided by external resources shall be considered. Contracting times must also be taken into account to guarantee the continuity of institutional operations.</li> </ol>
Computer systems	
Indicators	Number of level 1 incidents solved in a timely manner in relation to the total number of incidents received at said levels.     Number of incidents addressed in a timely manner in relation to the total number of incidents received.     New recorded incidents.     Degree of user satisfaction.

	Background information	References
inputs	<ul> <li>Detection of failures or incidents identified in other subprocesses of the Information and Communication Technologies macroprocess.</li> <li>Requirements to address failures or incidents received by users.</li> <li>Service Catalogue (valid).</li> </ul>	Reference documents defined by the subprocess support systems.
Outcomes	Service Catalogue (updated). End-user requirements adequately addressed. Monitoring and control of infrastructure and network functionality at an end-user level.	

