

Agenda -- continued

Detector

- CDS -- Software configuration control
- Possible detector design trades for the future

Rolf Bork

Robbie Vogt

LUNCH

1245 - 1315

LIGO Modeling Environment

1315 - 1400

- Programming environment survey report & recommendations
- Demonstration
- Software tools organization - status

Hiro Yamamoto

Hiro Yamamoto

Andy Kuhnert

Specifications, Requirements, and Interfaces

1400 - 1500

- Preliminary interface definitions: VE/BT/Facilities
- Science Requirements Document
- Operations
- System Specification Status

Gerry Stapfer

Rai Weiss

Fred Raab

Albert Lazzarini

Conclusion and Actions

1500- 1530

- General Discussion

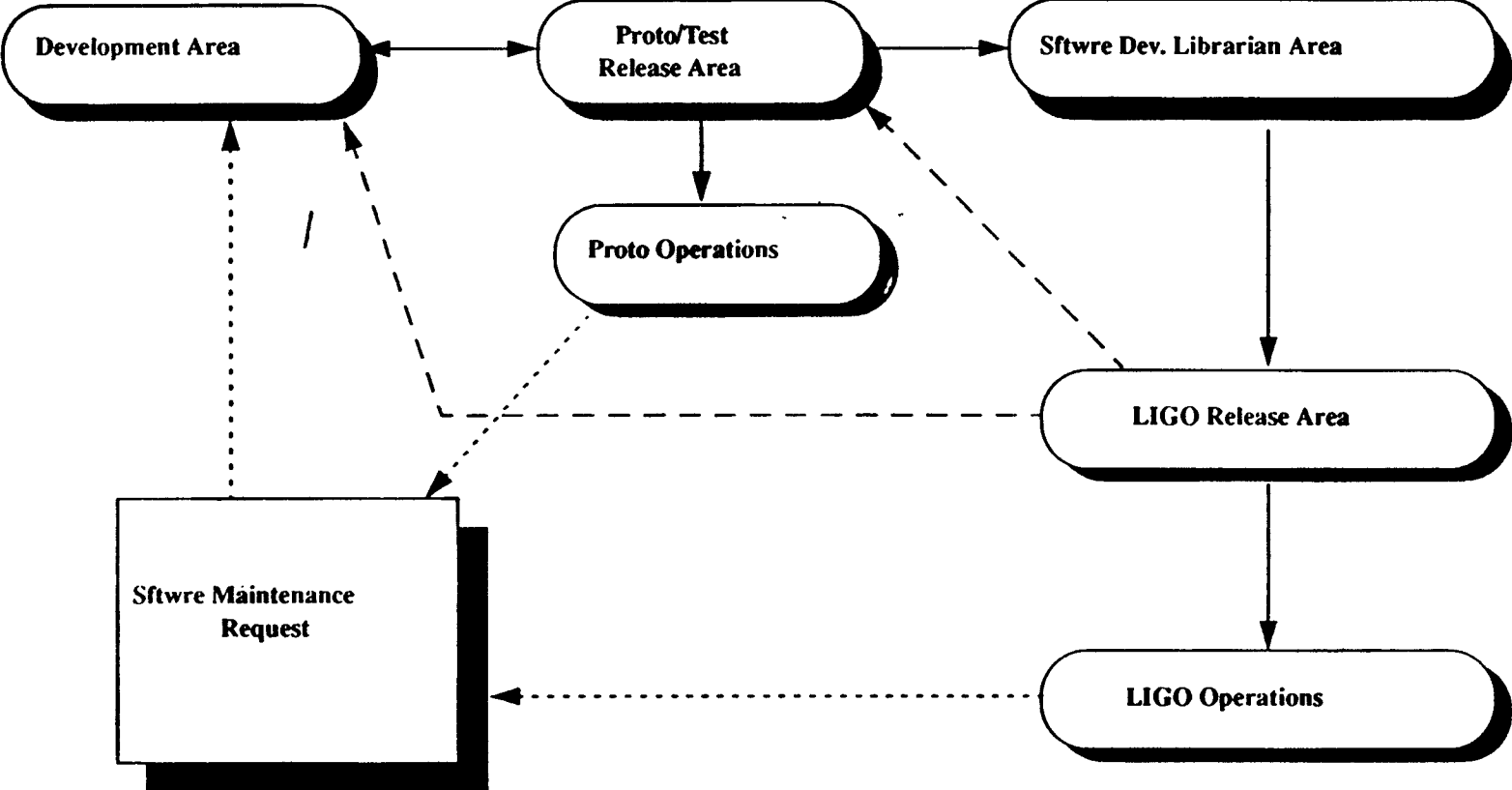
All

Software Configuration Control for CDS

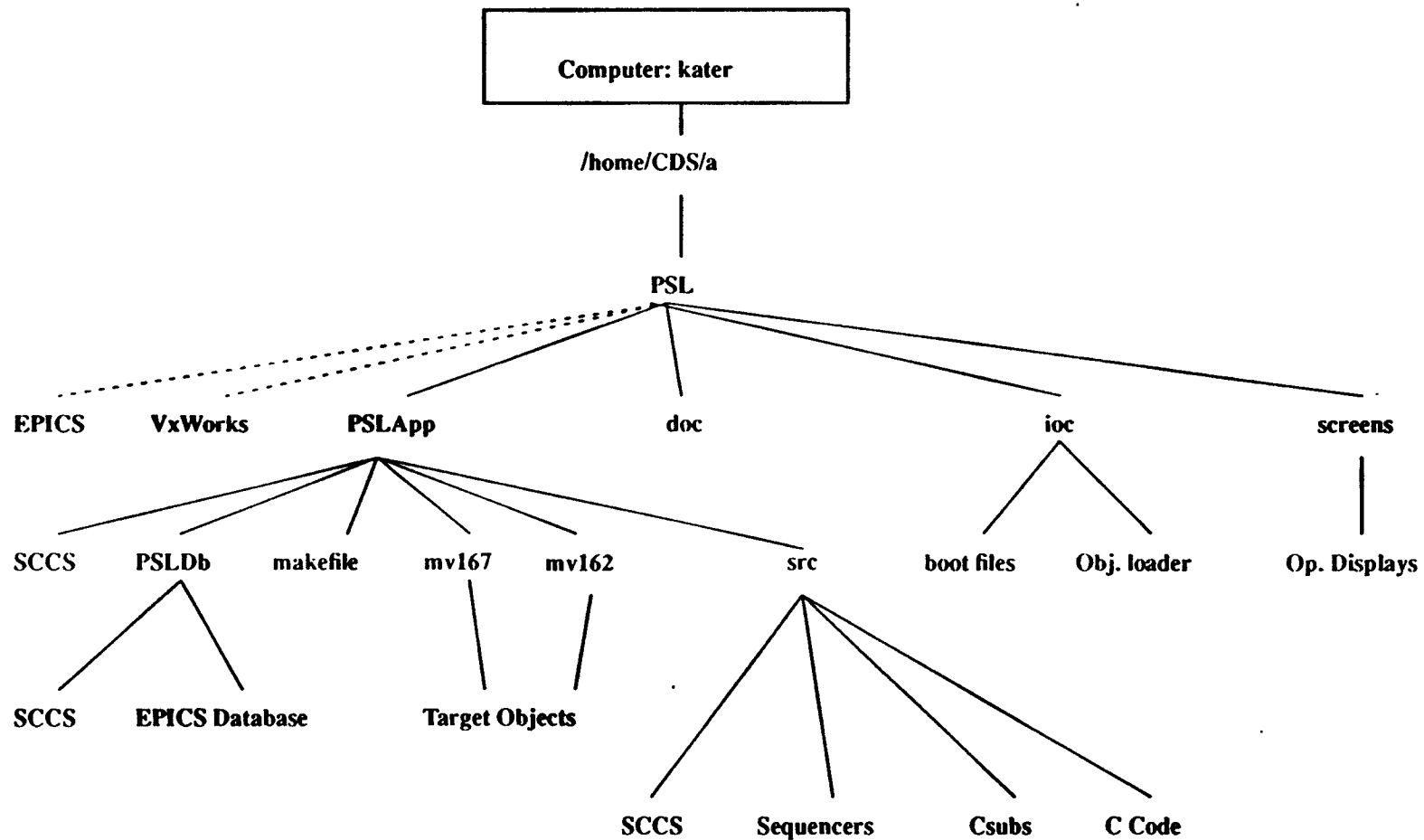
Rolf Bork

- Identify Code Development and Release Areas
- Consistent Directory Structures
- All software under Source Code Configuration System (SCCS) provided under Unix
 - Provides revision numbering and log
 - Allows movement back/forward between revisions
 - Provides list of changes
- Change requests tracked via Software Modification Request (SMR) forms
 - Become effective once code reaches a Release Area
 - Electronic Format
 - Problem report / Change Request
 - Problem/Change Analysis
 - Problem Correction / Modification
 - SMR Status database updated weekly

Software Configuration Control - Code Areas



Software Configuration Control - Directory Structure



- Status of recent software improved
- Effort of documenting all useful codes ongoing
|| establish guidelines ||
|| for developers ||
- CDS software development plan / configuration control
Starting point ?!
- Effort needs manpower.



SYSTEM MODIFICATION REQUEST

Please submit as much information as possible, but do not fill in the other side of this page.

Modification Name:	Date:
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Please enter a concise name to identify the problem

SMR Number: <i>(Filled in by Controls Dept.)</i>
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Is modification related to: <input type="checkbox"/> Hardware <input type="checkbox"/> System <input type="checkbox"/> Documentation <input type="checkbox"/> Software <input type="checkbox"/> Uncertain	Type of Change: <input type="checkbox"/> Improvement <input type="checkbox"/> Resolution of Problem <small>(discrepancy / correction)</small> <input type="checkbox"/> Enhancement <small>(new requirement)</small>
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Requestor:	Phone:	E-mail:	Division/Department:
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System: <input type="checkbox"/> LINAC <input type="checkbox"/> LEB <input type="checkbox"/> MEB <input type="checkbox"/> HEB <input type="checkbox"/> Collider <input type="checkbox"/> ASST <input type="checkbox"/> Other	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; padding: 5px;">Location:</td> <td style="width:50%; padding: 5px;"><small>Include Sub-system name, Room or area name, rack or console number</small></td> </tr> <tr> <td style="padding: 5px;">Component Name:</td> <td style="padding: 5px;"><small>Command, program name, hardware module, include version number if applicable</small></td> </tr> <tr> <td style="padding: 5px;"> Priority: <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Critical </td> <td style="padding: 5px;">Signature:</td> </tr> </table>	Location:	<small>Include Sub-system name, Room or area name, rack or console number</small>	Component Name:	<small>Command, program name, hardware module, include version number if applicable</small>	Priority: <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Critical	Signature:
Location:	<small>Include Sub-system name, Room or area name, rack or console number</small>						
Component Name:	<small>Command, program name, hardware module, include version number if applicable</small>						
Priority: <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Critical	Signature:						

Symptoms: <input type="checkbox"/> documentation missing <input type="checkbox"/> incorrect behavior <input type="checkbox"/> operation never returns <input type="checkbox"/> documentation wrong <input type="checkbox"/> unfriendly behavior <input type="checkbox"/> calculation is wrong <input type="checkbox"/> system crashes <input type="checkbox"/> inconsistent behavior <input type="checkbox"/> display is incorrect <input type="checkbox"/> data was lost <input type="checkbox"/> message unclear or wrong <input type="checkbox"/> occurs in certain operating modes <input type="checkbox"/> data was incorrect <input type="checkbox"/> occurs randomly <input type="checkbox"/> system is unresponsive	<small>Check all that apply; supply error messages and additional text below use additional sheets, if required</small>
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Impact:	<small>Describe activities which this problem affects if not corrected</small>
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Describe options or workaround solutions:	<small>Is there any way to continue until the modification is made?</small>
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Suggested Action:	<small>Can you suggest a solution?</small>
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SSC Laboratory CONTROL SYSTEM

SYSTEM MODIFICATION REQUEST

Please fill out other side of this form first

This side of form to be filled out as problem is resolved.

SMR Number: _____
(Filled in by Controls Dept.)

Analysis

Analyzed by:	Phone:	E-mail:	Department:	Date Received:
Response Priority: Resolve IMMEDIATELY <input type="checkbox"/> Important; put at head of queue <input type="checkbox"/> Place in normal queue <input type="checkbox"/> Low priority; use workaround <input type="checkbox"/> lowest priority; last thing to fix <input type="checkbox"/> Will not be resolved <input type="checkbox"/> (Include reasons)	Can you suggest additional workarounds:			
	_____ _____ _____			
	Recommendations:			
If possible, give an estimate of number of days required for this modification _____		Do you foresee problems in testing:		
_____		_____		

Resolution

Resolved by:	Phone:	E-mail:	Department:	Date Received:
Briefly describe the action taken:				
Code change required <input type="checkbox"/>	Documentation change required <input type="checkbox"/>	Duplicate SMR <input type="checkbox"/>	Specification change <input type="checkbox"/>	
Design change required <input type="checkbox"/>	No change made (give reasons) <input type="checkbox"/>	User mistake <input type="checkbox"/>	Not reproducible <input type="checkbox"/>	

Date Modified:	Date Tested:	Date Requestor Notified:		
_____	_____	_____		

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