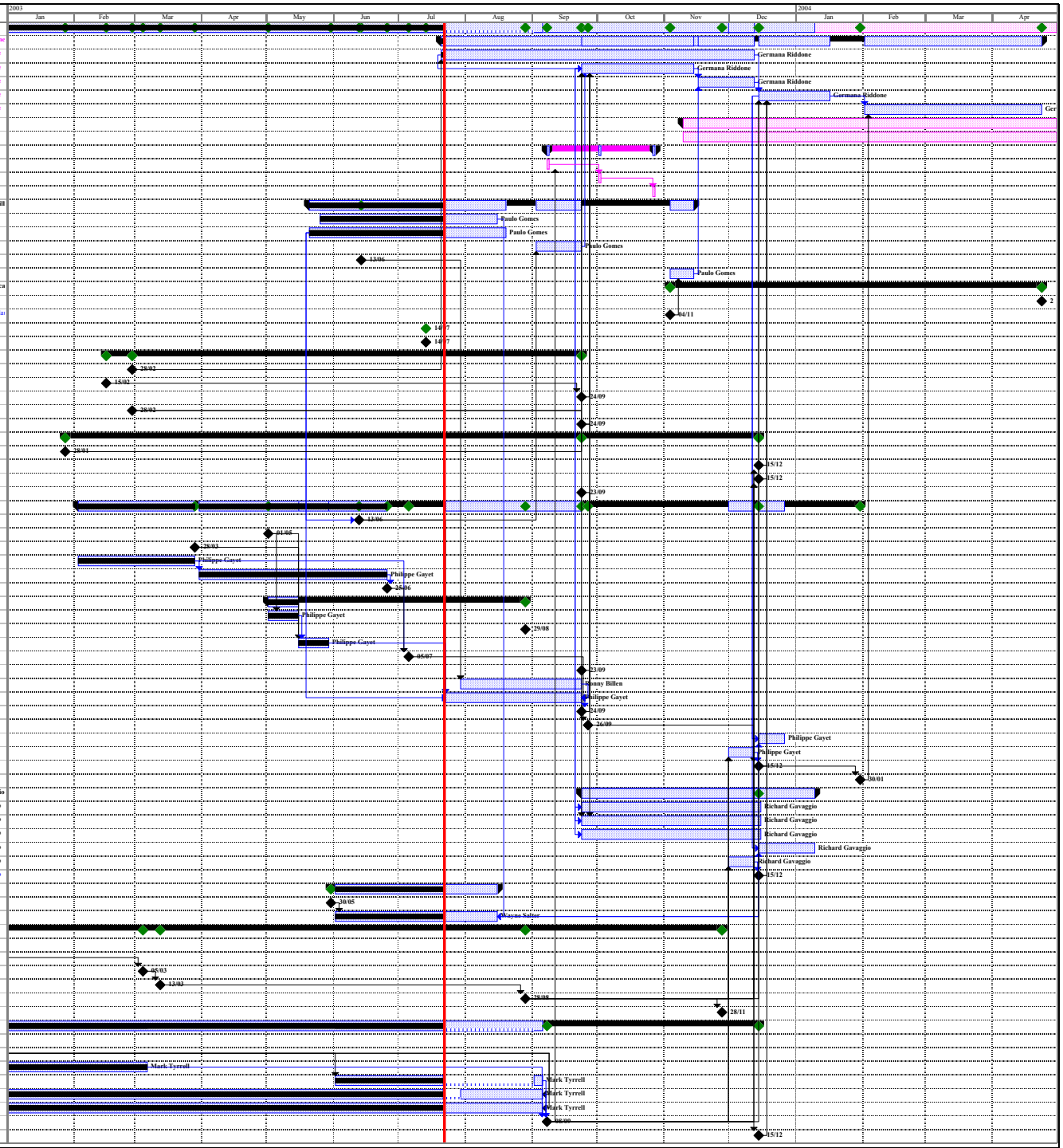
ID	Task Name	Duration	Start	Finish	% Complet	Predecessors	Successors	Resource Names
0	**QRL Controls**	**162.2 w**	**Sat 20/01/01**	**Fri 30/04/04**	**53%**			
1	**1 QRL (7-8) Activities**	**38 w**	**Mon 21/07/03**	**Fri 23/04/04**	**0%**			**Germana Riddone**
2	1.1 QRL(7-8) Installation	21 w	Mon 21/07/03	Fri 12/12/03	1%	25	5,3SS	Germana Riddone
3	1.2 QRL(7-8) Pre-Commissioning (1)	7.6 w	Wed 24/09/03	Fri 14/11/03	0%	2SS,27,31,50,16,28,29	4,57SS,59SS	Germana Riddone
4	1.3 QRL(7-8) Pre-Commissioning (2)	4 w	Mon 17/11/03	Fri 12/12/03	0%	3,18	5	Germana Riddone
5	1.4 QRL(7-8) Commissioning	3 w	Mon 15/12/03	Fri 16/01/04	0%	2,4,62,54,71,80,33,32,81	6,52SS,60SS	Germana Riddone
6	1.5 QRL(7-8) Reception	12 w	Mon 02/02/04	Fri 23/04/04	0%	5,55		Germana Riddone
7	**2 QRL(2-3) Activities**	**23 w**	**Mon 10/11/03**	**Fri 30/04/04**	**0%**			
8	2.1 QRL(2-3) Installation	23 w	Mon 10/11/03	Fri 30/04/04	0%			
9	**3 LSS4, TT40 Tests**	**7.2 w**	**Mon 08/09/03**	**Mon 27/10/03**	**0%**			
10	3.1 LSS4, TT40 Beam Test (1)	0.2 w	Mon 08/09/03	Mon 08/09/03	0%	80	11	
11	3.2 LSS4, TT40 Beam Test (2)	0.2 w	Thu 02/10/03	Thu 02/10/03	0%	10	12	
12	3.3 LSS4, TT40 Beam Test (3)	0.2 w	Mon 27/10/03	Mon 27/10/03	0%	11		
13	**4 CRYO Devices for QRL (7-8)**	**25.6 w**	**Wed 21/05/03**	**Fri 14/11/03**	**57%**			**Juan Casas-Cubill**
14	4.1 CRYO <-> VAC Communication Data specified	12 w	Mon 26/05/03	Fri 15/08/03	68%		65FF	Paulo Gomes
15	4.2 CRYO S/W Specification	13 w	Wed 21/05/03	Tue 19/08/03	68%		49SS,36SS	Paulo Gomes
16	4.3 PLC in Alcoves installed	3 w	Wed 03/09/03	Tue 23/09/03	0%	36	3	Paulo Gomes
17	4.4 Thermometer Data Base available	0 w	Fri 13/06/03	Fri 13/06/03	100%		48	Ronny Billen
18	4.5 Profibus-DP Test Crates installed	1.8 w	Tue 04/11/03	Fri 14/11/03	0%	21	4	Paulo Gomes
19	**5 Fieldbus**	**22.8 w**	**Tue 04/11/03**	**Fri 23/04/04**	**0%**			**Claude-Henri Sica**
20	5.1 Passerelle ETHERFIP & MicroFIP module available (N/A for QRL7-8)	0 w	Fri 23/04/04	Fri 23/04/04	0%			
21	5.2 WorldFIP Network Cables & Connectors installed	0 w	Tue 04/11/03	Tue 04/11/03	0%		18	Jean-Claude Guillai
22	**6 Timing**	**0 w**	**Mon 14/07/03**	**Mon 14/07/03**	**100%**			**Pal Anderssen**
23	6.1 Time Stamping (1-2 msec resolution: NTP only)	0 w	Mon 14/07/03	Mon 14/07/03	100%			
24	**7 Communications Infrastructure**	**30.8 w**	**Sat 15/02/03**	**Wed 24/09/03**	**0%**			
25	7.1 Voice Communication (900 MHz Leaky Feeder) installed	0 w	Fri 28/02/03	Fri 28/02/03	100%		2	Pal Anderssen
26	7.2 GPRS Performace Tests in Lab ready	0 w	Sat 15/02/03	Sat 15/02/03	100%		27	Philippe Gayet
27	7.3 Wireless Ethernet (VDSL as substitute for GPRS) available	0 w	Wed 24/09/03	Wed 24/09/03	0%	26	3	Pal Anderssen
28	7.4 ETHERNET Technical Network on LHC Surface Sites installed	0 w	Fri 28/02/03	Fri 28/02/03	100%		3,58	Pal Anderssen
29	7.5 Additional Optical Fibres in Underground Areas (7-8) installed	0 w	Wed 24/09/03	Wed 24/09/03	0%		3,58	Pal Anderssen
30	**8 Control rooms**	**45.2 w**	**Tue 28/01/03**	**Mon 15/12/03**	**0%**			
31	8.1 Local CRYO ready	0 w	Tue 28/01/03	Tue 28/01/03	100%		3	Philippe Gayet
32	8.2 VAC & CRYO Alarms & Logging from PCR	0 w	Mon 15/12/03	Mon 15/12/03	0%	71,80	5	Pierre Charrue
33	8.3 VAC & CRYO Monitoring from TCR	0 w	Mon 15/12/03	Mon 15/12/03	0%	71,80	5	Pierre Ninin
34	8.4 PVSS Data Server for QRL CRYO	0 w	Tue 23/09/03	Tue 23/09/03	0%		49FF	
35	**9 CRYO Controls**	**49.4 w**	**Mon 03/02/03**	**Fri 30/01/04**	**53%**			**Philippe Gayet**
36	9.1 PLC Architecture specific to QRL-CRYO finalised	0 w	Fri 13/06/03	Fri 13/06/03	100%	15SS	16,49	Philippe Gayet
37	9.2 UNICOS PVSS Framework available	0 w	Thu 01/05/03	Thu 01/05/03	100%		45,43	Philippe Gayet
38	9.3 UNICOS PLC Library delivered	0 w	Fri 28/03/03	Fri 28/03/03	100%		45	Philippe Gayet
39	9.4 QSRB S/W development with PCVUE	8 w	Mon 03/02/03	Fri 28/03/03	100%		46,40	Philippe Gayet
40	9.5 QSRB S/W development with PCVUE: reception test by ACR Group	12 w	Mon 31/03/03	Wed 25/06/03	100%	39	41	Philippe Gayet
41	9.6 QSRB S/W development with PCVUE: accepted by ACR Group	0 w	Wed 25/06/03	Wed 25/06/03	100%	40	46	
42	**9.7 UNICOS Code Generation Tool available**	**17 w**	**Fri 02/05/03**	**Fri 29/08/03**	**99%**			**Philippe Gayet**
43	9.7.1 UNICOS Code Generation for PVSS	2 w	Fri 02/05/03	Thu 15/05/03	100%	37	45	Philippe Gayet
44	9.7.2 UNICOS Code Generation for New Schneider Platform ?	0 w	Fri 29/08/03	Fri 29/08/03	0%			Philippe Gayet
45	9.8 PVSS Development Kit available	2 w	Fri 16/05/03	Thu 29/05/03	100%	38,37,43	49	Philippe Gayet
46	9.9 Refrigerator Controls ready	0 w	Sat 05/07/03	Sat 05/07/03	100%	39,41	51	Philippe Gayet
47	9.10 ETHERNET Local Connection for QRL(7-8) installed	0 w	Tue 23/09/03	Tue 23/09/03	0%		49FF	Philippe Gayet
48	9.11 Automatic Extraction of Thermometric Calibration data from Oracle available	8 w	Wed 30/07/03	Tue 23/09/03	0%	17	49FF	Ronny Billen
49	9.12 QRL CRYO Control development for QRL Pre-Commissioning	9 w	Wed 23/07/03	Tue 23/09/03	0%	48FF,45,15SS,34FF,47FF,36	50	Philippe Gayet
50	9.13 QRL CRYO Control for QRL Pre-Commissioning available	0 w	Wed 24/09/03	Wed 24/09/03	0%	49	3	Philippe Gayet
51	9.14 QUI Commissioned with PVSS	0 w	Fri 26/09/03	Fri 26/09/03	0%	46	54	Philippe Gayet
52	9.15 QRL VAC Data Exchange with CRYO Test	2 w	Mon 15/12/03	Fri 26/12/03	0%	65,5SS		Philippe Gayet
53	9.16 QRL CRYO Tests with Alarm & Logging Systems	2 w	Mon 01/12/03	Fri 12/12/03	0%	71,80	54	Philippe Gayet
54	9.17 QRL CRYO Control ready for QRL Commissioning	0 w	Mon 15/12/03	Mon 15/12/03	0%	51,53	5,55	Philippe Gayet
55	9.18 QRL CRYO operational for Reception tests	0 w	Fri 30/01/04	Fri 30/01/04	0%	54	6	Philippe Gayet
56	**10 VAC Controls**	**13.6 w**	**Wed 24/09/03**	**Fri 09/01/04**	**0%**			**Richard Gavaggio**
57	10.1 QRL VAC Equipment Installation, Connection & Local Test	11.8 w	Wed 24/09/03	Mon 15/12/03	0%	3SS	58SS	Richard Gavaggio
58	10.2 QRL VAC Equipment Monitoring from Office	11.8 w	Wed 24/09/03	Mon 15/12/03	0%	57SS,28,29		Richard Gavaggio
59	10.3 QRL VAC Hardwired Interlocks with CRYO Test	11.8 w	Wed 24/09/03	Mon 15/12/03	0%	3SS		Richard Gavaggio
60	10.4 QRL VAC Data Exchange with CRYO Test	2 w	Mon 15/12/03	Fri 09/01/04	0%	65,5SS		Richard Gavaggio
61	10.5 QRL VAC Tests with Alarms & Logging Systems	2 w	Mon 01/12/03	Fri 12/12/03	0%	71,80	62	Richard Gavaggio
62	10.6 QRL VAC Controls ready for QRL Commissioning	0 w	Mon 15/12/03	Mon 15/12/03	0%	61	5	Richard Gavaggio
63	**11 DIP (Data Interchange Protocol)**	**11 w**	**Fri 30/05/03**	**Fri 15/08/03**	**65%**			**Wayne Salter**
64	11.1 DIP (Data Interchange Protocol) Definition	0 w	Fri 30/05/03	Fri 30/05/03	100%		65	Wayne Salter
65	11.2 DIP Prototype suitable for QRL Tests implemented	11 w	Mon 02/06/03	Fri 15/08/03	65%	64,14FF	60,52	Wayne Salter
66	**12 Logging**	**142 w**	**Sat 20/01/01**	**Fri 28/11/03**	**0%**			**Ronny Billen**
67	12.1 Logging UR published	0 w	Sat 20/01/01	Sat 20/01/01	100%		68	Ronny Billen
68	12.2 Logging Functional Specs available	0 w	Sat 30/11/02	Sat 30/11/02	100%	67	69	Ronny Billen
69	12.3 Logging Architectural Design Doc available	0 w	Wed 05/03/03	Wed 05/03/03	100%	68	70	Ronny Billen
70	12.4 Logging Interfaces for Data Providers Published	0 w	Thu 13/03/03	Thu 13/03/03	100%	69	71	Ronny Billen
71	12.5 Logging for QRL (browser based GUI) available	0 w	Thu 28/08/03	Thu 28/08/03	0%	70	72,5,53,61,32,33	Ronny Billen
72	12.6 Logging accepted by QRL Clients	0 w	Fri 28/11/03	Fri 28/11/03	0%	71		Ronny Billen
73	**13 Alarms**	**89.4 w**	**Mon 04/03/02**	**Mon 15/12/03**	**91%**			**Mark Tyrrell**
74	13.1 Alarms' UR published	0 w	Mon 04/03/02	Mon 04/03/02	100%			Mark Tyrrell
75	13.2 Alarms' Technology Definition	0 w	Mon 09/09/02	Mon 09/09/02	100%		76,77,78FF,79FF	Mark Tyrrell
76	13.3 Alarms' Source API development	16 w	Fri 01/11/02	Thu 06/03/03	100%	75	80	Mark Tyrrell
77	13.4 Alarms' Client API development	8 w	Mon 02/06/03	Fri 05/09/03	90%	75	80	Mark Tyrrell
78	13.5 Alarms' Console Prototype (in Lab) Development	49 w	Mon 02/09/02	Fri 05/09/03	89%	75FF	80	Mark Tyrrell
79	13.6 Alarms' Business Layer Prototype (in Lab) Development	73 w	Wed 20/03/02	Fri 05/09/03	91%	75FF	80	Mark Tyrrell
80	13.7 Alarms' Operational Prototype available	0 w	Mon 08/09/03	Mon 08/09/03	0%	76,77,78,79	5,61,81,32,53,33,10	Mark Tyrrell
81	13.8 Alarm System available for QRL Commissioning	0 w	Mon 15/12/03	Mon 15/12/03	0%	80	5	Mark Tyrrell



Project: QRL Controls
GANTT Chart
Date: Tue 22/07/03 & 16:1

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline