

IMS Analysis Check-List Items		DCMA 14-Point Metric	Chrono™ Comparison*
1	Logic (inter-dependencies)	Minimal missing Logic Links. # of tasks without predecessors and / or successors should not exceed 5%.	+ 0 Exceptions per Chrono™ Wizard
2	Leads (negative lag)	Should not be used. Negative time is not demonstrable and should not be encouraged.	+ 0 Exceptions per Chrono™ Wizard
3	Lags	Minimal usage allowed. Should not be used to manipulate float/slack or to restrain the schedule. Should not exceed 5%.	+ SS+ Allowed by Chrono™ Wizard
4	Relationship Types		+ Chrono™ Default
	Finish-to-Start (FS)	Encouraged (>90%)	Chrono™ Default
	Start-to-Finish (SF)	Counter-intuitive: only rarely used, if Justified	Not allowed by Chrono™
	Start-to-Start (SS)	OK	Allowed by Chrono™
	Finish-to-Finish (FF)	OK	Not allowed by Chrono™
5	Hard Constraints	No more than 5% of tasks should have Hard Constraints.	+ Not allowed for Tasks in Chrono™ Can Accomplish in Chrono™ with Milestones
	Hard: Must-Finish-On (MFO), Must-Start-On (MSO), Start No-Later-Than (SNLT) & Finish-No-Later-Than (FNLT)	Hard constraints prevent schedule from being logic-driven.	Chrono™ Default
	Soft: As-Soon-As-Possible (ASAP), Start-No-Earlier-Than (SNET), & Finish-No-Earlier-Than (FNET)	Soft constraints are OK.	
6	High Float	No more than 5% of tasks with Total Float/Slack in excess of 44 days (2 months).	Computed by Chrono™ but not prevented (more specific to Earned Value Management)
		May be a result of missing predecessors and/or successors.	Not Specifically Imposed by Chrono™ (could easily add)
7	Negative Float	Tasks should not have negative float. A task which has less than 0 Float/Slack does not support the Critical Path (CP).	Milestones are Exempt Not allowed by Chrono™
8	High Duration	<5% of tasks with a Baseline duration >44 working days (2 months), within rolling wave planning window. Helps to break large tasks into 2 or more smaller tasks - makes schedule more manageable.	Computed by Chrono™ but not prevented (more specific to Earned Value Management) Not Specifically Imposed by Chrono™ (could easily add)
9	Invalid Dates	Cannot forecast starts and/or finishes before the project Status date. Not logical or appropriate to back-date.	+ 0 Exceptions per Chrono™ Wizard
10	Resources	All tasks with durations greater than zero have dollars or hours assigned. If IMS is required to be resource-loaded.	Specific to Earned Value Management Not Specifically Imposed by Chrono™ (not Planned or needed for ES)
11	Missed Tasks	No more than 5% of tasks should be late at a status update. % of tasks which were suppose to be completed by the baseline status date, but have forecasted finish dates after the status date.	+ 0 Exceptions per Chrono™ Wizard
12	Critical Path Test	Change in Critical Path task duration extension must result in same number of negative float/slack days for completion task/milestone. This is a test for broken logic somewhere in the IMS network.	+ 0 Exceptions per Chrono™ Wizard
13	Critical Path Length Index (CPLI)	CPLI < .95 is an indicator of inefficiencies to be investigated. CPLI = (remaining duration of CP + TF)/(remaining duration of CP).	+ Specifically Calculated by Chrono™
14	Baseline Execution Index (BEI)	Metric measuring task throughput (>1 is good, and <1 is bad).	+ Specifically Calculated by Chrono™
		BEI cum = (total # of tasks complete) / (total # of tasks completed before status date + total # of tasks missing baseline finish date). Provides insight into the realism of program cost, resource and schedule estimates.	

 Chrono™ Exceeds this metric guideline

 Chrono™ Meets this metric guideline

 Not Implemented but could (or do not have to due to ES vs EV Implementation)

Exclusions from above metrics:

- ◆ Completed Tasks
- ◆ LOE (Level of Effort) Tasks
- ◆ Summary Tasks
- ◆ Milestones