





WS-Calendar is

- Derived from iCalendar
- A common CIM for communication of schedule between grid, enterprise, facility, and finance
- Developed in close cooperation with standards work in the IETF
- Full of options to express performance expectations and requirements



WS-Calendar is said to

- Be far to complex to use
- Be far to verbose, with all thos options and performance expectations
- Be difficult to understand
- Wrap everything inside of some complex calendar thing
- Have all sorts of complicated notions to handle ramps up, ramps down, recurrences, variations, options, ...



How WS-Calendar works

- Consider
 - Simple Product Description (EMIX)
 - Simple partition (WS-Calendar)
- Product: Power
- Partition:
 - Sequence made up of set of identical duration intervals

Units:	KW	Quantity	10
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Simple EMIX Product Description

Start:	8:00	Duration:	1Hour		
		Duration:	1Hour		
		Duration:	1Hour		
		Duration:	1Hour		
		Duration:	1Hour		

WS-Calendar Partition



WS-Calendar applied

WS-Calendar describes how an information model is shared between a gluon (invariant parts) and the intervals in a sequence sequence (varying parts)

Works for complex models too, with overrides and inheritance

Power applied to a Partition

Units	KW	Start:	8:00	Duration:	1Hour	Quantity	10
				Duration:	1Hour	Quantity	10
				Duration:	1Hour	Quantity	15
				Duration:	1Hour	Quantity	25
				Duration:	1Hour	Quantity	10



WS-Calendar in simple case

- Performance specification ignored
- No relationships between intervals
- Single interval left
- *Simple expression not far from no WS-Calendar at all...*

Simplicity: sequence collapses back to a single interval

Units	KW	Start:	8:00	Duration:	1Hour	Quantity	10
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