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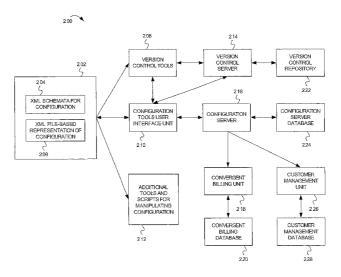
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(54) Title: SYSTEM AND METHOD FOR HIERARCHICALLY REPRESENTING CONFIGURATION ITEMS



(57) Abstract: A system and method for hierarchically representing configuration items are described herein. In one embodiment, the method includes receiving a request to modify one or more configuration items, wherein the request is associated with a direct manipulation GUI command, wherein the configuration items are associated with configuration item icons, and wherein the configuration items are stored in a configuration management system repository. The method further includes modifying the one or more configuration items, wherein the modifying includes modifying high-level representations of the one or more configuration items. The method further includes generating low-level representations of the one or more configuration items, and exporting the low-level representations to a database.



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Y	U.S. Patent Application Publication Number 2004/0		1, 2, 3, 15, 16, 17, 5, 9,		
_	2004, Figure 1, Figure 2A, Figure 2B, Figure 4A, Pa	aragraphs 0028, 0030, 0038, 0031, 0032	23, 27, 11, 14, 29, 32		
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Y	U.S. Patent Number 5103421, (Ward et al.), 7 April	1992. Column 3 Lines 20-27.	4, 18, 22.		
		·	.,,		
Y	U.S. Patent Application Publication Number 2004/0	019670A1 (Viswanath), 29 January	5, 6, 7, 8, 23, 24, 25,		
	2004. Paragraphs 0065, 0066, 0067, 0068, 0069.		26, 12, 13, 30, 31		
Y	U.S. Patent Number 6772396B1 (Cronin et al.), 3 A		11, 29		
	Column 8 Line 10, Column 11 Line 66 through Column	ımn 12 Line 12.			
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