

Severity Level	Caution		Bulletin Number	E55745 Revision 2
Issue Date	08/28/2014	Expires	46.0	
Title	Oracle Communications EAGLE Element Management System (E5-MS) 45.0.1: IP port usage specifications missing from Interface User Guide			
Product	E5-MS	Release	45.0.1	
Priority	Minor	Related CSR/PR	PR 235398	
Impacts Compatibility	NO	Impacted Product Line(s): <i>(Only if Impacts Compatibility = YES)</i>		
Markets	ALL	Part No. Affected	910-6752-001 Rev B	
Author and Formal Approvers				
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Customer Documentation	Bryan Chappell 08/27/14			

The ports that are used by the E5-MS system are missing from 910-6752-001 Rev B.

Impact

If a firewall is present between the E5-MS servers and its clients, the ports used by E5-MS need to be opened bidirectionally on the firewall for proper functioning of E5-MS with the firewall enabled.

Needed Actions

The ports used by E5-MS, their type, and their purpose are provided in the table below. All of these ports must be opened up on the firewall.

Note: Ports for SSH (22), Telnet (23), and SNMP (161) must be opened bidirectionally.

S #	Port (Type)	Purpose
1	20 (TCP)	Data port for FTP
2	21 (TCP)	Command port for FTP
3	22 (TCP)	Port used for SSH connection
4	23 (TCP)	Port used for Telnet connection to support outbound connections to STPs configured without the SSH option; E5-MS does not provide Telnet as a login service
5	69 (UDP)	TFTP service port used by WebNMS
6	161	SNMP port

	(UDP)	
7	162 (UDP)	SNMP trap port used for receiving traps
8	1099 (TCP)	RMI Registry port used in Client-Server communication
9	2000 (TCP)	NMS BE port used for communication between BE and FE servers
10	2300 (TCP)	Config server port
11	3306 (TCP)	MySQL
12	4500 (TCP)	SAS (SNMP Applet server) port In BE-FE combination, all SAS-related information is passed through a socket.
13	4567 (TCP)	Web NMS Client-Server communication port
14	8001 (UDP)	Web NMS Agent port
15	8002 (UDP)	Port to receive SNMP set request from NMS
16	8443 (TCP)	SSL connection port
17	9000 (TCP)	I-net Clear Reports server port
18	9999 (TCP)	SUM port
19	36001 (TCP)	NMS FE secondary port
20	36002 (TCP)	Web NMS Client-Server communication port
21	36003 (TCP)	RMI Server Socket Port
22	<i>Range</i> (TCP)	For the NBI FTP module to transfer measurement files from E5-MS to NMS using FTP (passive mode), the port range (ports used for ftp) for the FTP server needs to be configured at NMS. The ports specified in the port range on NMS need to be opened on the E5-MS server firewall as well.

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