

ISO 11783-4:2011-12 (E)

Tractors and machinery for agriculture and forestry - Serial control and communications data network - Part 4: Network layer

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Description	2
4.1	Role of the network interconnection unit (NIU)	2
4.2	Role of the network layer	3
5	Requirements	6
5.1	Network interconnection unit (NIU)	6
5.2	Network topology	6
5.3	Network addressing	6
6	Network interconnection unit functions	7
6.1	Forwarding	7
6.2	Filtering	7
6.3	Address translation	8
6.4	Message repackaging	8
6.5	Network message	8
6.6	Database management	10
6.7	Network topology information	14
6.8	Network interconnection unit parametrics	16
6.9	Forwarding destination-specific messages by establishing a connection	22
7	Types of network interconnection units	29
7.1	Repeater	29
7.2	Bridge	29
7.3	Router	30
7.4	Gateway	30
7.5	Tractor ECU	31
Bibliography		32