

# ISO/IEC 16512-2:2008-05 (E)

## Information technology - Relayed multicast protocol: Specification for simplex group applications

---

<b>Contents</b>		<b>Page</b>
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Definitions .....</b>	<b>1</b>
<b>4</b>	<b>Abbreviations .....</b>	<b>2</b>
<b>5</b>	<b>Overview .....</b>	<b>2</b>
<b>5.1</b>	<b>RMCP-2 entities .....</b>	<b>3</b>
<b>5.2</b>	<b>RMCP-2 protocol block .....</b>	<b>4</b>
<b>5.3</b>	<b>Simplex delivery model of RMCP-2 .....</b>	<b>5</b>
<b>5.4</b>	<b>Types of RMCP-2 messages .....</b>	<b>5</b>
<b>6</b>	<b>Protocol operation .....</b>	<b>6</b>
<b>6.1</b>	<b>SM's operation .....</b>	<b>6</b>
<b>6.2</b>	<b>MA's operation .....</b>	<b>8</b>
<b>7</b>	<b>RMCP-2 message format .....</b>	<b>18</b>
<b>7.1</b>	<b>Common format of RMCP-2 message .....</b>	<b>18</b>
<b>7.2</b>	<b>Control data format .....</b>	<b>20</b>
<b>7.3</b>	<b>Messages .....</b>	<b>21</b>
<b>8</b>	<b>Parameters .....</b>	<b>44</b>
<b>8.1</b>	<b>Data forwarding profile .....</b>	<b>44</b>
<b>8.2</b>	<b>Parameters used in RMCP-2 .....</b>	<b>45</b>
<b>8.3</b>	<b>Encoding rules to represent values used in RMCP-2 .....</b>	<b>46</b>
<b>Annex A - Tree configuration algorithm .....</b>		<b>49</b>
<b>A.1</b>	<b>Bootstrapping rule .....</b>	<b>49</b>
<b>A.2</b>	<b>Neighbour discovering rule .....</b>	<b>50</b>
<b>A.3</b>	<b>HMA selection rule .....</b>	<b>51</b>
<b>A.4</b>	<b>CMA acceptance rule .....</b>	<b>51</b>
<b>A.5</b>	<b>Parent decision rule .....</b>	<b>52</b>
<b>A.6</b>	<b>Tree improvement rule .....</b>	<b>53</b>
<b>A.7</b>	<b>PMA's kicking-out rule .....</b>	<b>53</b>
<b>Annex B - Real-time data delivery scheme .....</b>		<b>54</b>
<b>B.1</b>	<b>Overview .....</b>	<b>54</b>
<b>B.2</b>	<b>IP-IP tunnel mechanism for RMCP-2 real-time data delivery .....</b>	<b>54</b>
<b>Annex C - Reliable data delivery scheme .....</b>		<b>56</b>
<b>C.1</b>	<b>Overview .....</b>	<b>56</b>
<b>C.2</b>	<b>Operation .....</b>	<b>56</b>
<b>C.3</b>	<b>Data encapsulation format .....</b>	<b>58</b>
<b>C.4</b>	<b>Data profile .....</b>	<b>58</b>
<b>Annex D - RMCP-2 API .....</b>		<b>59</b>

D.1	Overview .....	59
D.2	RMCP-2 API functions .....	60