

ISO/IEC 30100-3:2016-04 (E)

Information technology - Home network resource management - Part 3: Management application

CONTENTS

FOREWORD.....	4
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms, definitions and abbreviations	6
3.1 Terms and definitions	6
3.2 Abbreviations	8
4 Conformance	9
5 Management application	9
5.1 Overview.....	9
5.2 Management application model	9
5.3 Home resource management process	10
5.4 Simple interaction flow using HRMI.....	10
6 Home resource management interface (HRMI)	12
6.1 Overview.....	12
6.2 List of resource management interface services.....	13
6.3 Home resource management interface services	14
6.3.1 Request for user authentication	14
6.3.2 Request for initial setup.....	14
6.3.3 Request for operation start	15
6.3.4 Request for operation stop	15
6.3.5 Request for operation restart	16
6.3.6 Request for the inquiry of home resource domain.....	16
6.3.7 Request for the inquiry of home resource information.....	17
6.3.8 Request for the inquiry of home resource information by Name	18
6.3.9 Request for the inquiry of home resource information by type.....	19
6.3.10 Request for the inquiry of home resource information by ID.....	19
6.3.11 Request for the inquiry of home relation information.....	20
6.3.12 Request for the inquiry of home relation information by domain	21
6.3.13 Request for the inquiry of home relation information by relation ID	22
6.3.14 Request for the inquiry of home relation information by source ID.....	22
6.3.15 Request for registration of event condition	23
6.3.16 Request for cancellation of event condition	24
6.3.17 Request for inquiry of event.....	24
6.3.18 Request for resource control.....	25
6.3.19 Request for resource probing	26
6.3.20 Request for log data about relation information	26
6.4 Management interface services	28
6.4.1 Data structure of management interface.....	28
6.4.2 Event Name of management interface	29

Annex A (informative) Interface schema for physical space information provider (example)	30
Annex B (informative) Implementation of management application (example)	34
B.1 Overview.....	34
B.2 Fault management application overview.....	34
B.3 Simple fault diagnosis scenario using HRMI.....	35
B.3.1 Initial setup	35
B.3.2 Resource and relation object information acquisition	36
B.3.3 Fault diagnosis.....	37
B.3.4 Event processing.....	37
B.3.5 Fault diagnosis result notify	38
Bibliography	39
Figure 1 – Management application model.....	10
Figure 2 – Example of simple interaction flow	11
Figure B.1 – Fault management system configuration	34
Figure B.2 – Fault management application interfaces	35
Figure B.3 – Sequence flow of initial setup	36
Figure B.4 – Destroy and logout procedure.....	36
Figure B.5 – Fault diagnosis result procedure.....	37
Figure B.6 – Event state change procedure	38