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Storitve in protokoli za napredna omrežja (SPAN) – Rezultat PNO in vprašalnikov proizvajalcev opreme za identifikacijo enote opreme

Services and Protocols for Advanced Networks (SPAN); Result of the PNOs and Equipment Manufacturers questionnaires for identification of Equipment Unit

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Technical Report

Services and Protocols for Advanced Networks (SPAN); Result of the PNOs and Equipment Manufacturers questionnaires for identification of Equipment Unit

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

Introduction

Public Network Operators (PNOs) and telecom equipment manufacturers have a common interest in the area of the Identification of Telecommunication Equipment. This common interest stems from the fact that equipment is the subject of numerous interactions between these business entities. In order to improve the understanding and exchange of information needed in this area, ETSI TC SPAN15 decided to conduct a survey within its membership. This survey was implemented by means of two questionnaires: one aimed at the PNOs and one aimed at the manufacturers.

The present document contains the results of this survey. Clause 4 lists the answers given by PNOs; clause 5 lists the answers given by manufacturers. The two questionnaires were developed by different entities and use different terminologies. Therefore it was needed to construct a cross-reference table which maps the terminology from both questionnaires. This table is provided in clause 6. The original questionnaires are given in the annexes A and B.

1   Scope

The present document is the result of a survey which was conducted in the fourth quarter of 2002 to evaluate and list the information needed by the PNOs and Manufacturers regarding Equipment Identification.

2   References

For the purposes of this Technical Report (TR) the following references apply:

[1]   ETSI TS 102 209: "Services and Protocols for Advanced Networks (SPAN); Telecommunication Equipment Identification".

3   Abbreviations

For the purposes of the present document, the following abbreviations apply:

A	Additional
EI	Equipment Identity
MIB	Management Information Base
NR	Not Requested
PNO(s)	Public Network Operator(s)
R	Requested
SDoC	Suppliers Declaration of Conformity

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4   PNOs' results

The answers given by PNOs are shown in table 1.

Table 1: PNOs' results

Description of equipment information needed by PNO	FT	BT	TI	B	T
1) Manufacturer's name: The Manufacturer's name responsible for the assembly, construction, and testing of the equipment unit	R	R	R	R	R
2) Manufacturer part number: The Manufacturer's part number that is physically stamped or marked on the equipment unit	R	R	R	R	R
3) Manufacturer's equipment version number: This is in regards to the hardware version. Also referred to as series, release, or issue and is associated to the part number. Used to identify the assembly and wiring processes used to construct the equipment unit (physically stamped on the equipment unit)	A	R	R	R	R
4) Manufacturing Ordering Code: Reference the Manufacturer's recommended or preferred equipment ordering codes (normally not stamped on the equipment). This is a commercial type of code	A	A	A	A	A
5) Equipment tracking: The EI should provide a single source of information for identifying Manufacturer's equipment version	R	R	R	R	A
6) Port or circuit rate: Identify the all the bit rates, speed, or other special engineering features associated with the equipment unit	NR	R	R	R	R
7) Physical dimensions: Identify the metric length, height, width and shape of the equipment unit	A	R	R	R	R
8) Physical description: Describe the type of assets, and if the equipment unit is a plug-in, plug-on, mounting, shelf, bay, rack, cabinet, etc.	A	R	R	R	R
9) Physical weight: Provide the metric weight of the unit (less shipping container) > (this is for human and/or structural limit)	A	R	R	A	R
10) Electrical requirements: Reference the manufacturers specifications for current type, cycles per second, voltage, power consumption, fusing requirements, etc.	A	R	R	R	R

Description of equipment information needed by PNO	FT	BT	TI	B	T
11) Alarm features: Reference the Manufacturer's recommended specifications for alarming equipment units	A	A	R	A	R
12) Testing information: Reference the Manufacturer's specifications for testing each equipment unit or item	A	A	A	A	R
13) Hazardous materials: Alert the PNO that there is a Manufacturers hazardous material warning	A	R	A	R	R
14) Downloadable software feature: This would identify that the equipment unit is capable of receiving down loadable software from an external source	R	R	A	R	R
15) Equipment slot requirements: Specify the quantity of slots required to install the equipment unit	A	R	R	R	R
16) Equipment slot locations: Specify the slot locations on the shelf where specific equipment can be mounted	A	R	R	R	R
17) Maximum allowable quantities: Identify how many shelves, magazines, etc. can be equipped in a cabinet, bay or rack. (This is different than circuit capacity)	A	R	R	R	R
18) Total quantity of equipment slots: Identify the total number of slots being provided by the equipment mounting	A	R	R	A	R
19) System information: How many equipment units and shelves are required to initiate a system (i.e. DBM2000 - one shelf, Titan 5500-multiple shelves, etc.). NB: a system is beyond the scope of this work item	NR	R	R	A	R
20) Installation environmental: Identifies acceptable conditions for equipment installation application (exterior, interior, dry, wet, dust free, etc.)	NR	R	A	A	R
21) Equipment installation: Identifies if the equipment is designed for pole mounts, ground level, cabinet, etc. installations	A	R	A	A	R
22) Installation, wiring and cabling: Reference Manufacturer's recommended wiring and cross-connects for the equipment. Examples are coaxial cabling fiber-in/fiber-out, distributing frame connections, etc.	A	A	R	A	R
23) Product description: A brief description of the equipment unit (i.e. power, alarm, interface, etc.	A	R	R	R	R
24) Equipment function or features: Engineering and design information that describes the specific roles, functions, or multi-functions of the equipment unit. Examples are PDH or SDH multiplexing, connectors, etc.	A	R	R	R	R
25) General application of Equipment Units: Identifies the general application or asset grouping for the equipment unit. Examples would be general power, transmission/transport, switching, access, etc.	A	A	A	A	R
26) Manufacturer reconditioned or repaired equipment: Reconditioned or repaired equipment should be "flag" by the Manufacturer before it is returned to the PNO. NB: this is not appropriate in the context of this work item	A	A	NR	NR	A
27) Technical Information: Reference to equipment and assembly drawings, circuit schematics, circuit description, etc.	NR	R	A	A	R
28) Information stability: Equipment unit relationship should be permanent/stable that means having the same part number and version	R	R	R	R	A
29) Change Management: Provide information needed to identify and track minor and major equipment changes made during the production of equipment	R	R	R	R	R
30) Interchangeable equipment: Provide the ability to easily identify interchangeable "like-for-like" equipment within the same manufacturer. This question is referring only to the equipment units. Across manufacturers could be considered	R	R	R	R	R
31) Compatible equipment: Identify the 'downward' compatibility of equipment within the same manufacturer. Downward is a single direction, and implies that only a newer version can be used to replace a prior version, and not vice versa. This question is referring only to the equipment units. Across manufacturers could be considered	R	R	R	R	R
32) EI information should be human readable: The EI information should be in a human readable format that is in visible location when the equipment is in service. This question is related to the format or the support and therefore will be discussed in detail in the next WI	R	R	A	A	R
33) EI should be machine-readable (can be scanned): The EI information should be in a machine-readable format that can be scanned when the equipment is in service. This question is related to the format or the support and therefore will be discussed in detail in the next WI	R	R	R	A	A

Description of equipment information needed by PNO	FT	BT	TI	B	T
34) Management Information Base (MIB): EI information should be embedded with other manufacturer information that is stored within an equipment unit MIB. This question is related to the format or the support and therefore will be discussed in detail in the next WI	R	-	R	-	R
35) Application: A unique EI code is assigned to each equipment class (part number and version) with global uniqueness across equipment suppliers. Serial number is not taken into consideration	-	R	R	R	A
36) Benefits: which type of PNO process will benefit the information of the EI (see list below)					
36 a) Network Planning/Development	A	R	R	A	R
36 b) Network Provisioning	R	R	R	R	R
36 c) Network Inventory Management	R	R	R	R	R
36 d) Network Maintenance & Restoration	R	R	R	R	R
36 e) Network Monitoring	A	R	R	A	R
36 f) Acquisition: purchase of new equipment	R	R	R	R	-
37) Additional question: Manufacturer's equipment software version number. Also referred to as series, release, or issue and is possibly associated to the part number	R	R	R	R	-
38) Additional question: Compatible equipment software. Identify the 'downward" compatibility of equipment software. Downward is a single direction, and implies that only a newer version can be used to replace a prior version, and not vice versa	R	R	R	R	-
39) Additional question: Manufacturer's equipment unit firmware version number. Also referred to as series, release, or issue and is possibly associated to the part number	R	R	R	R	-
40) Additional question: Compatible equipment unit firmware. Identify the 'downward" compatibility of equipment unit firmware. Downward is a single direction, and implies that only a newer version can be used to replace a prior version, and not vice versa	R	R	R	R	-
41) Additional question: End of warranty period	R	A	A	R	
42) Additional question: End of Equipment supplier serviceability	R	A	A	A	
43) Additional question: Existence of MIB associated with an equipment and/or equipment unit Yes/No	R	A	A	A	
44) Additional question: Product Name given by the Equipment supplier	R	R	R	R	
45) Additional question: Is it still possible to order the equipment to the Equipment supplier	A	A	R	A	
46) Additional question: compliance with applicable standards (standard is independent of the country, i.e.: ITU, ETSI, etc.)	A	A	A	R	
47) Additional question: compliance with applicable certification (can be national, global, etc.)	A	A	A	R	
NOTE 1: "FT" stands for "France Telecom".					
NOTE 2: "BT" stands for "British Telecom".					
NOTE 3: "TI" stands for "Telecom Italia".					
NOTE 4: "B" stands for "Belgacom".					
NOTE 5: "T" stands for "Telefonica".					
NOTE 6: "A" stands for "Additional" meaning the PNO considers this information to be optional.					
NOTE 7: "NR" stands for "Not Requested" meaning this information is not requested by PNOs' organizations for internal or external use.					
NOTE 8: "R" stands for "Requested" meaning the PNO requests that this information be available on the equipment unit and/or associated EI databases.					
NOTE 9: Telefonica's answers were copied from the file they sent prior to the meeting according to the original questionnaire. All other operators replied taking into account information precision.					
NOTE 10: The questions quoted as "Additional" were added during the December 2002 meeting.					

5 Manufacturers' results

This clause lists the answers given by the manufacturers (table 2).

Table 2: Manufacturers' results

	Lucent	Siemens	Ericsson	Cisco
Identification of equipment				
1) Product number	R	R	R	R
2) Product revision	R	R	R	R
3) Product name	R	R	R	R
4) Product serial number	NR	R	R	R
5) Manufacturing time	NR	R	R	NR
6) Manufacturer	R	R	R	R
7) Certification marks	NR	R	A	R
8) Additional information				
Additional information				
9) Product structure	R	NR	R	NR
10) Traceability structure	NR	NR	R	NR
11) External product information	R	NR	A	NR
12) External serial number information	NR	NR	A	NR
13) Exemption indicator	NR	NR	A	NR
14) Scrap indicator	NR	NR	A	NR
15) Order number	NR	NR	R	NR
16) Shipment identification	NR	NR	R	NR
17) Shipment date	NR	NR	A	NR
18) Repair centre	NR	NR	A	NR
19) Customer	NR	NR	R	NR
20) Customer ID	NR	NR	R	NR
21) Customer location	NR	NR	A	NR
22) Site location ID	NR	NR	R	NR
23) Installation date	NR	NR	A	NR
24) Acceptance date	NR	NR	R	NR
25) Warranty	NR	NR	R	NR
26) Additional information				
Documents				
27) User guide	NR	NR	A	NR
28) Installation guide	NR	NR	A	NR
29) SDoC	NR	NR	A	NR
Added questions				
30) Added question: product description	R	A		
31) Added question: System name	R	A		
NOTE 1: "A" stands for "Additional" meaning the Manufacturer considers this information to be optional.				
NOTE 2: "NR" stands for "Not Requested" meaning this information is not requested by the Manufacturer's organizations for internal or external use.				
NOTE 3: "R" stands for "Requested" meaning the Manufacturer requests that this information be available on the equipment unit and/or associated EI databases.				
NOTE 4: Cisco and Ericsson's answers were copied from the file they sent prior to the meeting. Lucent and Siemens filled the questionnaire with the assumption that the additional information is available but not required as part of the Equipment Identity (Q9-25).				

6   Cross reference table

Since the questionnaires were developed by different entities, there was the need to map the meaning of each item. Table 3 is a cross reference table between the PNOs and Manufacturers interpretation.

Table 3: Cross reference table

Description of equipment information needed by PNO	Information needed by vendors
Manufacturer's name: The Manufacturer's name responsible for the assembly, construction, and testing of the equipment unit	**Manufacturer**
Manufacturer's equipment part number: The Manufacturer's part number that is physically stamped or marked on the equipment unit	**Product number**
Manufacturer's equipment version number: Also referred to as series, release, or issue and is associated to the part number. Used to identify the assembly and wiring processes used to construct the equipment unit (physically stamped on the equipment unit)	**Product revision**
Manufacturing ordering code: Reference the Manufacturer's recommended or preferred equipment ordering codes (normally not stamped on the equipment)	**Order number:** E.g. customer order number, purchase order number and/or delivery number can be used
Equipment tracking: The EI should provide a single source of information for identifying Manufacturer's equipment version (for example part number and equipment version number)	See product equipment version number
Port or circuit rate: Identify the all the bit rates, speed, or other special engineering features associated with the equipment unit	**Technical Specifications**
Physical dimensions: Identify the metric length, height, width and shape of the equipment unit	**Technical Specifications**
Physical description: Describe the type of assets, and if the equipment unit is a plug-in, plug-on, mounting, shelf, bay, rack, cabinet, etc.	**Product name (description)**
Physical weight: Provide the metric weight of the unit (less shipping container)	**Technical Specifications**
Electrical requirements: Reference the manufacturers specifications for current type, cycles per second, voltage, power consumption, fusing requirements, etc.	**Technical Specifications**
Alarm features: Reference the Manufacturer's recommended specifications for alarming equipment units	**Technical Specifications**
Testing information: Reference the Manufacturer's specifications for testing each equipment unit or item	**Technical Specifications**
Hazardous materials: Alert the PNO that there is a Manufacturers hazardous material warning and recommendations for product disposal	**SDoC and certification marks**
Downloadable software feature: This would identify that the equipment unit is capable of receiving down loadable software from an external source	**Product structure/Technical Specifications**
Equipment slot requirements: Specify the quantity of slots required to install the equipment unit	**Product structure/Technical Specifications**
Equipment slot locations: Specify the slot locations on an associated shelf where this equipment unit can be mounted	**Technical Specifications**
Maximum allowable quantities: Identify how many shelves, magazines, etc. can be equipped in a cabinet, bay or rack. (This is different than circuit capacity)	**Technical Specifications**
Total quantity of equipment slots: Identify the total number of slots being provided by the equipment mounting	**Technical Specifications**
System information: How many equipment units and shelves are required to initiate a system (i.e. DBM2000 - one shelf, Titan 5500-multiple shelves, etc.)	**Product structure**
Installation environmental: Identifies acceptable conditions for equipment installation application (exterior, interior, dry, wet, dust free, etc.)	**Installation guide**
Equipment installation: Identifies if the equipment is designed for pole mounts, ground level, cabinet, etc. installations	**Installation guide**