



CESAR²

Sub-annex
Access specification
Site Access

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1. Background

This appendix specifies standardised Site Access products, interface and other technical functions used to build the Local Fiber's specified Site Access products to Operators and Service providers.

Site Access products is part of CESAR2-agreement. Hence, the CESAR2 general conditions, service levels, framework agreement and call-off agreement applies.

2. Technical specifications

2.1 Conceptual technical specification of Site Access products

The technical specifications used to create the standardised Site Access products are based on a hierarchical chain, where the category is comprehensive, and attributes and variables are parts that constitutes the content of the Site Access product.

2.2 Technical specification Site Access Area node, Attribute

The table defines attributes of the product type to create a product portfolio for the Buyer's (Operator) distribution of services within the Seller's local fiber. ***Demands and recommendations specified in the Robust fiber Annex 4 p.2.2.15 for category D alt. E must be followed in addition to the following attributes.***

Product category: Site Access			
Product: Site Access area node			
ATTRIBUTES (Technical specifications)			
Variants	Site Access Small	Site Access Medium	Site Access Rack
Node classification PTSFS 2015:2	D alt. E	D alt. E	D alt. E
Access			
Through Seller's fiber access	According to agreement.	According to agreement.	According to agreement.
Through Buyer's fiber access from MeetMe	According to agreement.	According to agreement.	According to agreement.
Through redundant access	No, optional	No, optional	No, optional
Dimension of space	1-4U	5-12U	36-42U
Dimension rack	1-4U	5-12U	36-42U
Type of power (A, A+B)			
Power 230V AC (TN-S system), Frequency 50 Hz.	Yes, max. 200 watts	Yes, max. 300 watts	Yes, max. 2x2000 watts at D-node. E 1x2000W
Fuse			
Backup power	D-Nod=Yes 2tim, E-nod=No	D-Nod=Yes 2tim, E-nod=No	D-Nod=Yes 2tim, E-nod=No
Type			
Mobile power backup	No, Optional	No, Optional	No, Optional
UPS 230V AC	D-Nod=Yes 2h, E-nod=No	D-Nod=Yes 2h, E-nod=No	D-Nod=Yes 2h, E-nod=No
Power supply 48V DC	No, Optional	No, Optional	No, Optional
UPS 48V DC	D-Nod=Yes 2h, E-nod=No	D-Nod=Yes 2h, E-nod=No	D-Nod=Yes 2h, E-nod=No
Climate system (ETSI EN 300019-1)			
Cooling temperature	+5 - +30 degrees Celsius	+5 - +30 degrees Celsius	+5 - +30 degrees Celsius
Relative humidity	20% to 85%	20% to 85%	20% to 85%

Grounding			
The equipment shall be grounded with equipotential bonding according to ETSI EN 300 253 [2] to a main grounding rail or an equipotential bonding rail. Racks, cable ladders etc. must equipotential bonding through connection to PUS-rail.	Yes	Yes	Yes
EMC			
The equipment must meet the demands and limits of test methods according to standard ETSI EN 300 386	Yes	Yes	Yes
Intrusion detection			
Enclosure surface of the walls are equivalent to protection class 2 according to SSF 200	No	No	No
Type of alarm			
Intrusion alarm equivalent to alarm class 2 according to SSF 130 is installed.	No	No	No
Fire protection and enclosure surface			
Enclosure walls meaning outer walls towards other spaces or technical rooms in the building alternatively real outer wall, meets a minimum of EI 30 according to BBR	Yes	Yes	Yes
Fire alarm			
Automatic fire alarm according to RUS 110:5	Nej	Nej	Nej
Entry access control system			
Time	24 h, Around the clock	24 h, Around the clock	24 h, Around the clock
Keys	Yes, Optional	Yes, Optional	Yes, Optional
Card	No, Optional	No, Optional	No, Optional
ID06	No, Optional	No, Optional	No, Optional
Installation			
Responsibility for installation of racks	Seller	Seller	Seller
Responsibility for installation of equipment	Buyer	Buyer	Buyer
Responsibility for installation of cables	Seller	Seller	Seller
Equipment labelling			
The Buyer is responsible for labelling their equipment according to the Seller's instructions	Yes	Yes	Yes
Environmental standards			
The equipment can not contain substances forbidden by law. Work in space shall be followed by rules of hot works, cleaning and dust protection at rebuilding.	Yes	Yes	Yes
Site Access			
Site owners (sellers) access instructions	Read access instructions	Read access instructions	Read access instructions
Operators (buyers) access instructions	Read access instructions	Read access instructions	Read access instructions

2.3 Technical specification Site Access area node, options

The table defines attributes of the product type to create a product portfolio for the Buyer's distribution of services within the local fiber network.

Product category: Site Access		
Product: Site Access area node		
VARIABLES (Options)		
Variants:	Site Access Small D-class	Site Access Small E-class
Node classification PTSFS 2015:2	D	E
Dimensioning of equipment/rack space	1U-4U	1U-4U
Service level	In accordance with specific description	In accordance with specific description
Contract period	Yes, according to agreement.	Yes, according to agreement.
ID06	Yes	Yes, optional
UPS 230VAC, 10A, Operation time at least 2h	Yes	No
UPS -48V DC, Operation time at least 2h	Yes	No
Extra power socket 230VAC, without UPS	Yes, according to agreement.	Yes, according to agreement.
Extra power socket 230VAC, with UPS 4h.	Yes, according to agreement.	Yes, according to agreement.
Patching and wiring	Yes, according to agreement.	Yes, according to agreement.
Variants:	Site Access Medium D-class	Site Access Medium E-class
Node classification PTSFS 2015:2	D	E
Dimensioning of equipment/rack space	5-12U (1/3 rack/cabinet)	5-12U (1/3 rack/cabinet)
Service level	In accordance with specific description	In accordance with specific description
Contract period	Yes, according to agreement.	Yes, according to agreement.
ID06	Yes	Yes, optional
UPS 230VAC, 10A, Operation time at least 2h	Yes	No
UPS -48V DC, Operation time at least 2h	Yes	No
Extra power socket 230VAC, without UPS	Yes, according to agreement.	Yes, according to agreement.
Extra power socket 230VAC, with UPS 4h.	Yes, according to agreement.	Yes, according to agreement.
Patching and wiring	Yes, according to agreement.	Yes, according to agreement.
Variants:	Site Access Rack D-Class	Site Access Rack E-Class
Node classification PTSFS 2015:2	D	E
Dimensioning of equipment/rack space	36-42U	36-42U
Service level	In accordance with specific description	In accordance with specific description
Contract period	Yes, according to agreement.	Yes, according to agreement.
ID06	Yes	Yes, optional
UPS 230VAC, 10A, Operation time at least 2h	Yes	No
UPS -48V DC, Operation time at least 2h	Yes	No
Extra power socket 230VAC, without UPS	Yes, according to agreement.	Yes, according to agreement.
Extra power socket 230VAC, with UPS 4h.	Yes, according to agreement.	Yes, according to agreement.
Patching and wiring	Yes, according to agreement.	Yes, according to agreement.

2.4 Technical specification Site Access MeetMe, Attributes

The table defines the product type attributes to create a product portfolio for Operator's distribution of services within local fiber. ***Demands and recommendations specified in the Robust fiber Annex 4 p.2.2.15 for category A alt. B alt. C shall be followed in addition to the following attributes.***

Product category: Site Access			
Product: Site Access MeetMe			
ATTRIBUTES (Technical specifications)			
Variants:	MeetMe-A	MeetMe-B	MeetMe-C
Node classification PTSFS 2015:2	A	B	C
Dimensioning			
Dimension of space	1-42U	1-42U	1-42U
Dimension rack	1-42U	1-42U	1-42U
Type of power (A, A+B)			
Power 230V AC (TN-S system), Frequency 50 Hz.	Yes, optional default max 3000W	Yes, optional default max 3000W	Yes, optional default max 3000W
Fuse (63A, 32A, 25A, 16A, 10A)	10A, optional	10A, optional	10A, optional
Backup power	Yes	Yes	Yes
- Type			
Mobile power backup	No, Optional	No, Optional	No, Optional
UPS 230V AC	Yes	Yes	Yes
Operational time	24 h.	24 h.	24 h.
Power supply 48V DC	No, Optional	No, Optional	No, Optional
UPS 48V DC, 24 h.	Yes, Optional	Yes, Optional	No, Optional 12h
Climate system (ETSI EN 300019-1)			
Cooling temperature	15-30 degrees Celsius	15-30 degrees Celsius	15-30 degrees Celsius
Relative humidity, non condensating	20% to 85%	20% to 85%	20% to 85%
Grounding			
The equipment shall be grounded with equipotential bonding according to ETSI EN 300 253 [2] to a main grounding rail or an equipotential bonding rail. Racks, cable ladders etc. must equipotential bonding through connection to PUS-rail.	Yes	Yes	Yes
EMC			
The equipment must meet the demands of test methods and limits according to standard ETSI EN 300 386	Yes	Yes	Yes
Intrusion detection			
Enclosure surface of the walls are equivalent to protection class 2 according to SSF 200	Yes	Yes	No, Optional
Type of alarm			

Intrusion alarm equivalent to alarm class 2 according to SSF 130 is installed.	Yes	Yes	No, Optional
Fire protection and enclosure surface			
Enclosure walls meaning outer walls towards other spaces or technical rooms in the building alternatively real outer wall, meets a minimum of EI 30 according to BBR	Yes	Yes	No, Optional
Fire alarm			
Automatic fire alarm according to RUS 110:5	Yes	Yes	No, Optional
Entry access control system			
Time	24 h, Around the clock	24 h, Around the clock	24 h, Around the clock
Keys	No	No	No
Card	Yes	J Yes	Yes
ID06	Yes, Optional	Yes, Optional	Yes, Optional
Installation			
Responsibility for installation of racks	Seller	Seller	Seller
Responsibility for installation of equipment	Buyer	Buyer	Buyer
Responsibility for installation of cables	Seller	Seller	Seller
Equipment labelling			
The Buyer is responsible for labelling their equipment according to the Seller's instructions	Yes	Yes	Yes
Environmental standards			
The equipment can not contain substances forbidden by law. Work in space shall be followed by rules of hot works, cleaning and dust protection at rebuilding.	Yes	Yes	Yes
Site Access			
Site owners (sellers) access instructions	Read access instructions	Read access instructions	Read access instructions
Operators (buyers) access instructions	Read access instructions	Read access instructions	Read access instructions

2.5 Technical specification Site Access MeetMe, options

The table defines attributes of the product type to create a product portfolio for the Buyer's distribution of services within the local fiber network.

2.5.1 Site Access MeetMe

Product category: Site Access	
Product: Site Access MeetMe	
VARIABLES (Options)	
Variants:	MeetMe-A
Dimensioning of equipment/rack space	1-42U
Service level	In accordance with specific instructions
Contract period	According to agreement.
ID06	According to agreement.
-48V DC without UPS	According to agreement.
UPS -48V DC, Operation time at least 24h	Yes
Extra power socket 230VAC, without UPS	Yes, state the effect
Extra power socket 230VAC, with UPS.	Yes, state the effect
Fuse (63A, 32A, 25A, 16A, 10A)	Yes, default 10A
Patching and wiring	Yes, according to agreement.
Variants:	MeetMe-B
Dimensioning of equipment/rack space	1-42U
Service level	In accordance with specific instructions
Contract period	According to agreement.
ID06	According to agreement.
-48V DC without UPS	According to agreement.
UPS -48V DC, Operation time at least 24h	Yes
Extra power socket 230VAC, without UPS	Yes, state the effect
Extra power socket 230VAC, with UPS.	Yes, state the effect
Fuse (63A, 32A, 25A, 16A, 10A)	Yes, default 10A
Patching and wiring	Yes, according to agreement.
Variants:	MeetMe-C
Dimensioning of equipment/rack space	1-42U
Service level	In accordance with specific instructions
Contract period	According to agreement.
ID06	According to agreement.
-48V DC without UPS	According to agreement.
UPS -48V DC, Operation time at least 24h	Yes
Extra power socket 230VAC, without UPS	Yes, state the effect
Extra power socket 230VAC, with UPS.	Yes, state the effect
Fuse (63A, 32A, 25A, 16A, 10A)	Yes, default 10A
Intrusion protection, Intrusion alarm	Option, according to agreement.
Fire protection	Option, according to agreement.
Patching and wiring	Yes, according to agreement.

2.5.1 Site Access MeetMe own area

Product category: Site Access	
Product: Site Access MeetMee own area	
VARIABLES (Options)	
Variants:	MeetMe-A Own area
Dimensioning of area	Area according to agreement.
Service level	In accordance with specific instructions
Contract period	According to agreement.
ID06	According to agreement.
-48V DC without UPS	According to agreement.
UPS -48V DC, Operation time at least 24h	Yes
Extra power socket 230VAC, without UPS	Yes, state the effect
Extra power socket 230VAC, with UPS.	Yes, state the effect
Fuse (63A, 32A, 25A, 16A, 10A)	Yes, default 10A
Patching and wiring	Yes, according to agreement.
Variants:	MeetMe-B Own area
Dimensioning of area	Area according to agreement.
Service level	In accordance with specific instructions
Contract period	According to agreement.
ID06	According to agreement.
-48V DC without UPS	According to agreement.
UPS -48V DC, Operation time at least 24h	Yes
Extra power socket 230VAC, without UPS	Yes, state the effect
Extra power socket 230VAC, with UPS.	Yes, state the effect
Fuse (63A, 32A, 25A, 16A, 10A)	Yes, default 10A
Patching and wiring	Yes, according to agreement.
Variants:	MeetMe-C Own area
Dimensioning of area	Area according to agreement.
Service level	In accordance with specific instructions
Contract period	According to agreement.
ID06	According to agreement.
-48V DC without UPS	According to agreement.
UPS -48V DC, Operation time at least 24h	Yes
Extra power socket 230VAC, without UPS	Yes, state the effect
Extra power socket 230VAC, with UPS.	Yes, state the effect
Fuse (63A, 32A, 25A, 16A, 10A)	Yes, default 10A
Intrusion protection, Intrusion alarm	Option, according to agreement.
Fire protection	Option, according to agreement.
Patching and wiring	Yes, according to agreement.

3. Other technical functions and manuals

3.1 Deviations and additions

Deviations and additions to this appendix must be documented in appendix Specific terms

3.2 Measurement period and Service level

Measurement period refers to the period and time that the Seller is committed to execute Troubleshooting during service time according to agreed Service Level for products specified in this service specification. Measurement period is used under annex Service Levels alternatively according to specific manual service level for Site Access.