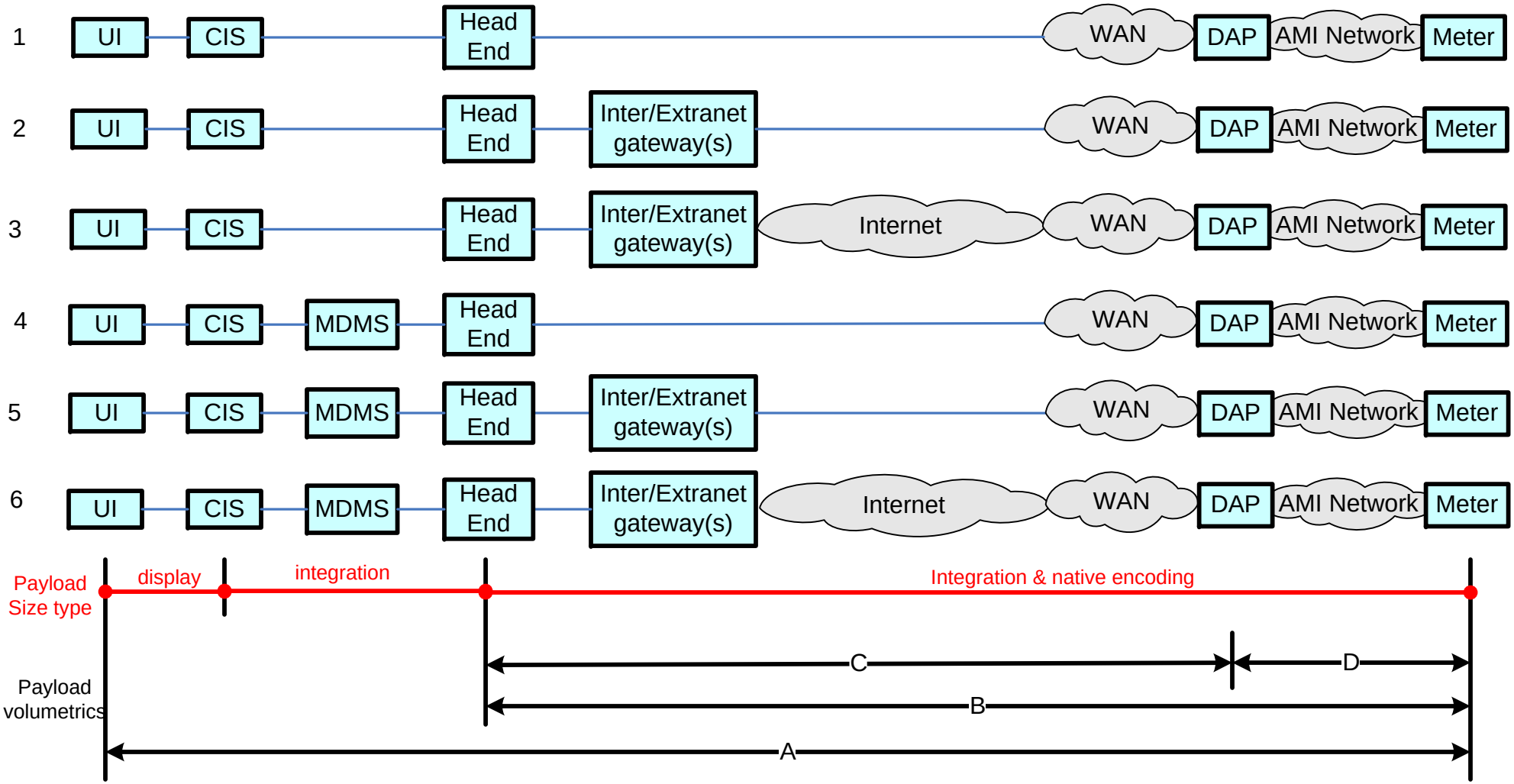
Utility CIS <-> Meter - Communication Path Options



Notes:

1) Business volumetric requirements are being documented for the application payloads between specific actors for specific communications paths. Typically it is easier to document these volumetric requirements for the dataflows (ref boundary points above), in the following order: A, C, B or D.
2) Most volumetrics for dataflows for the same payload, MUST NOT be relaxed more than the their parents volumetrics requirements. E.G.: a) the latency for dataflow B, MUST be < A's; b) C + D latency MUST be < B's; HOWEVER, the total amount of payloads per dataflow will diminish as one traverses towards a singular endpoint, e.g. specific payload qtys for CIS & HeadEnd probably will be equal, HeadEnd = sum of DAPs; a specific DAP = sum of meters that the specific DAP has been designed/deployed to handle.
3) For the CIS <-> Meter comm paths, several payloads will concurrently traverse, each with different business volumetric reqmts. E.G.: a) on-demand meter reads, b) meter read of multiple interval data time blocks, c) service switch ops & status, d) demand resets, e) meter last-gasp, f) and this same common path used to pass HAN, prepay, load control, type messages to HAN devices

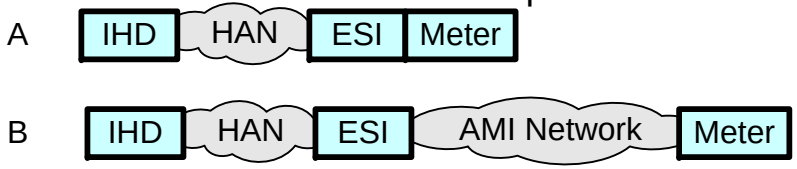
Meter Reading Use Case, functional, volumetric requirements – documentation needs

Documenting the various sets of “Meter Reading” use case Comm Path Options, results in the following:

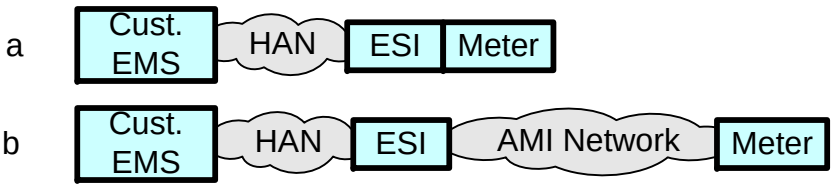
(6) options for CIS <-> Meter (see CIS-Mtr page)
(2) options for IHD <-> Meter (this page)
(2) options for Cust. EMS <-> Meter (this page)

2) Each of the various meter read payloads have different volumetrics across the set of different source and consumer actors. The intent is to document up all of these volumetric requirements (ref notes on “CIS-MTR” page and communicate the dataflows visually.

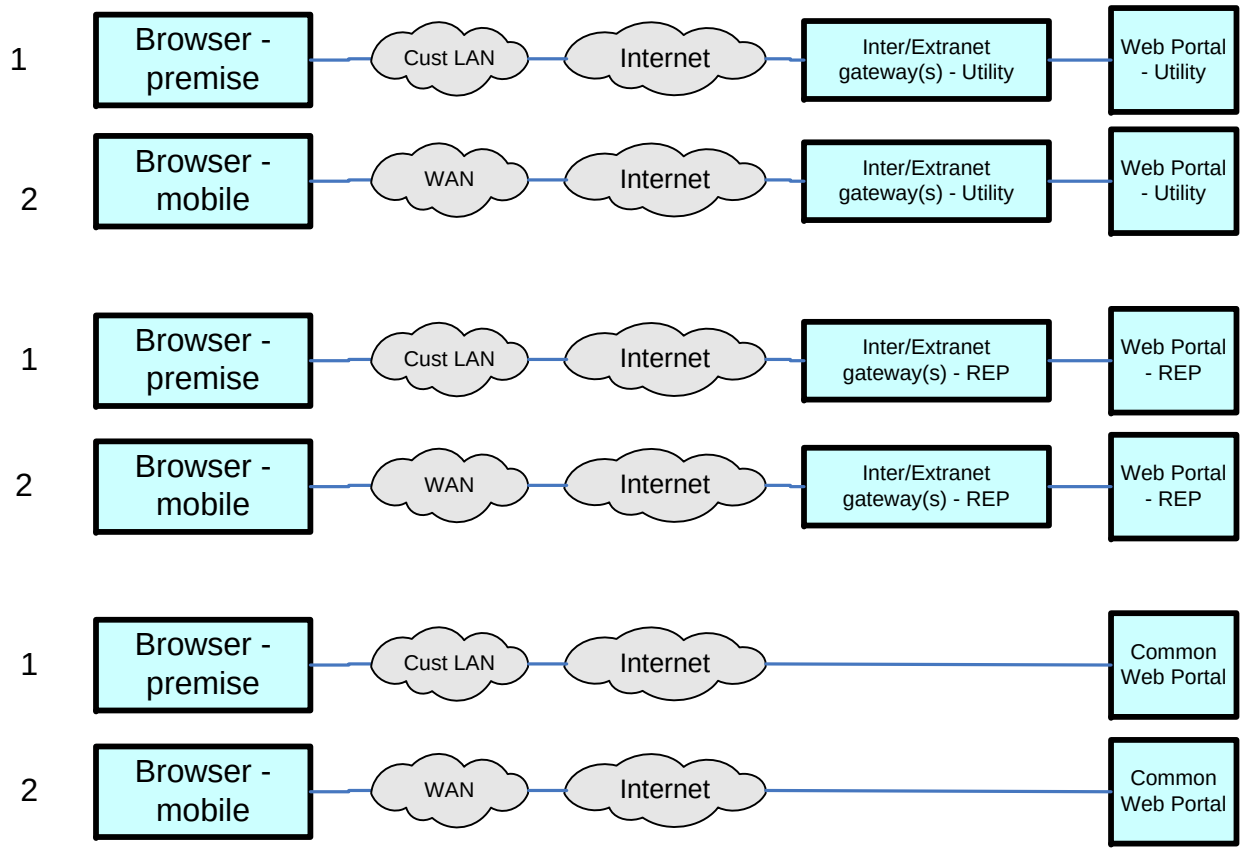
IHD <-> Meter Comm Path Options



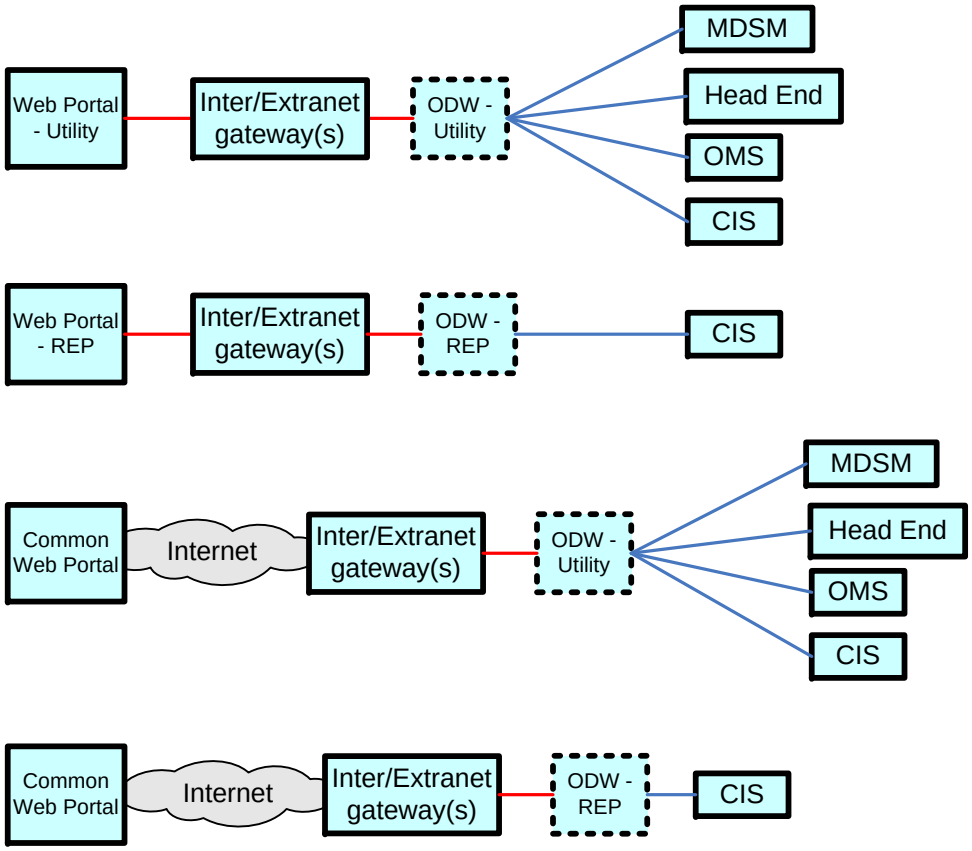
Cust. EMS <-> Meter Comm Path Options



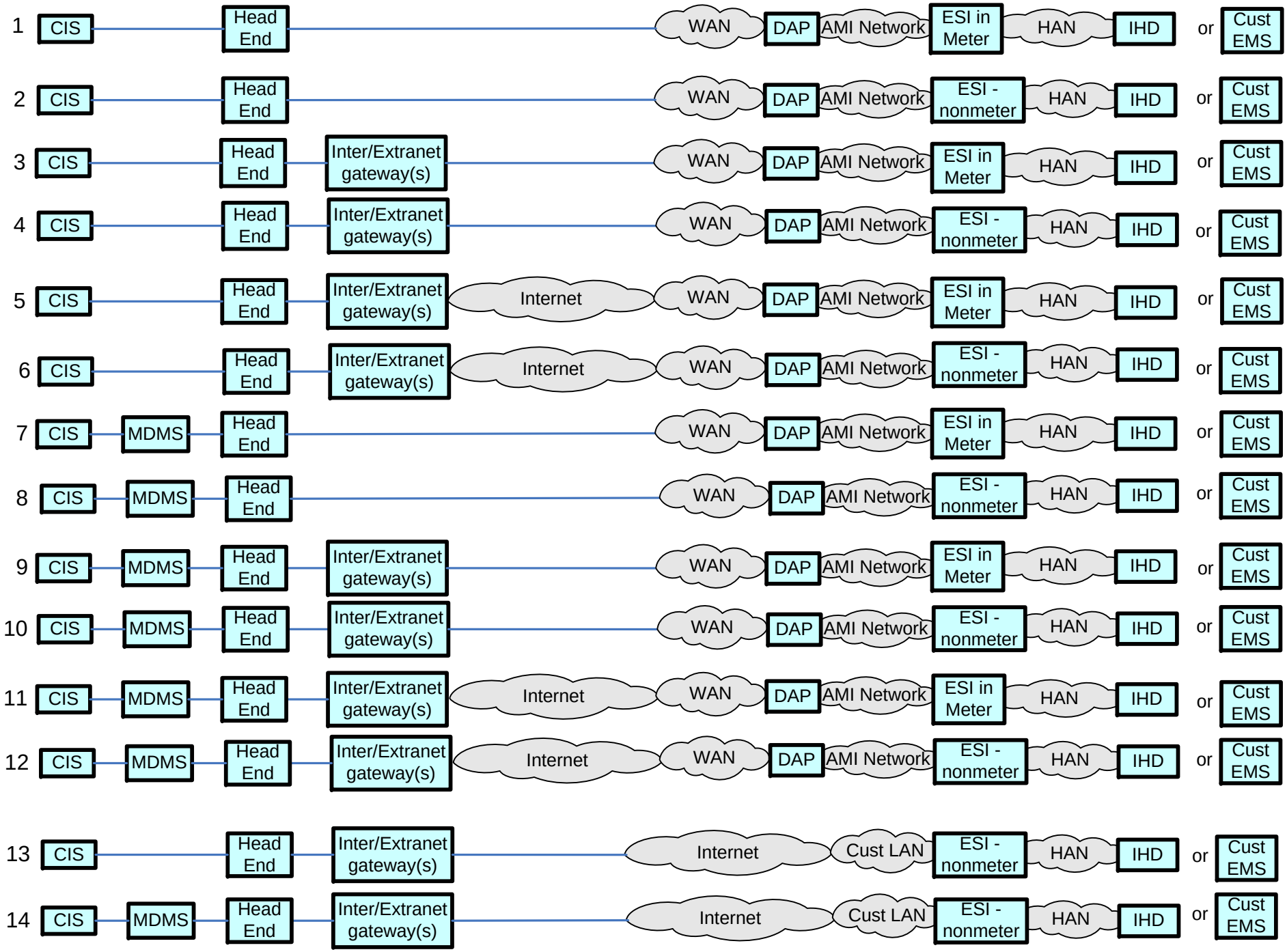
Cust <-> Web Portal - Communication Path Options



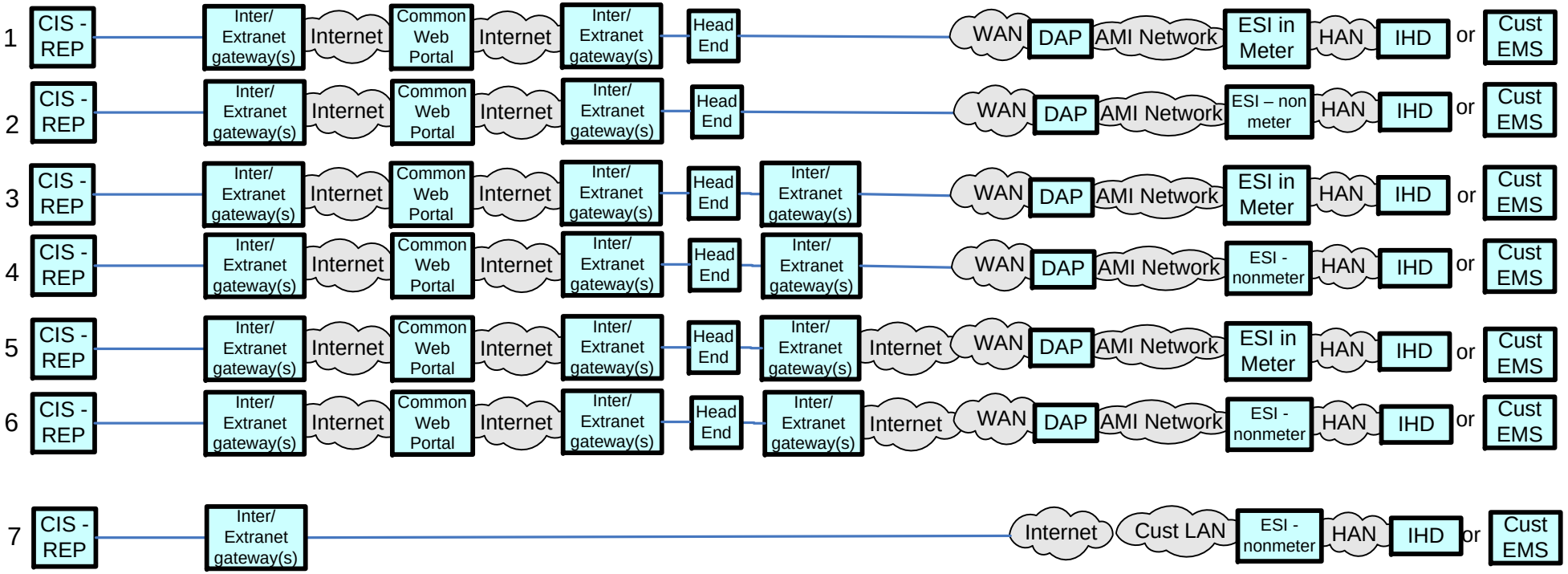
Web Portal <-> ODS - Communication Path Options



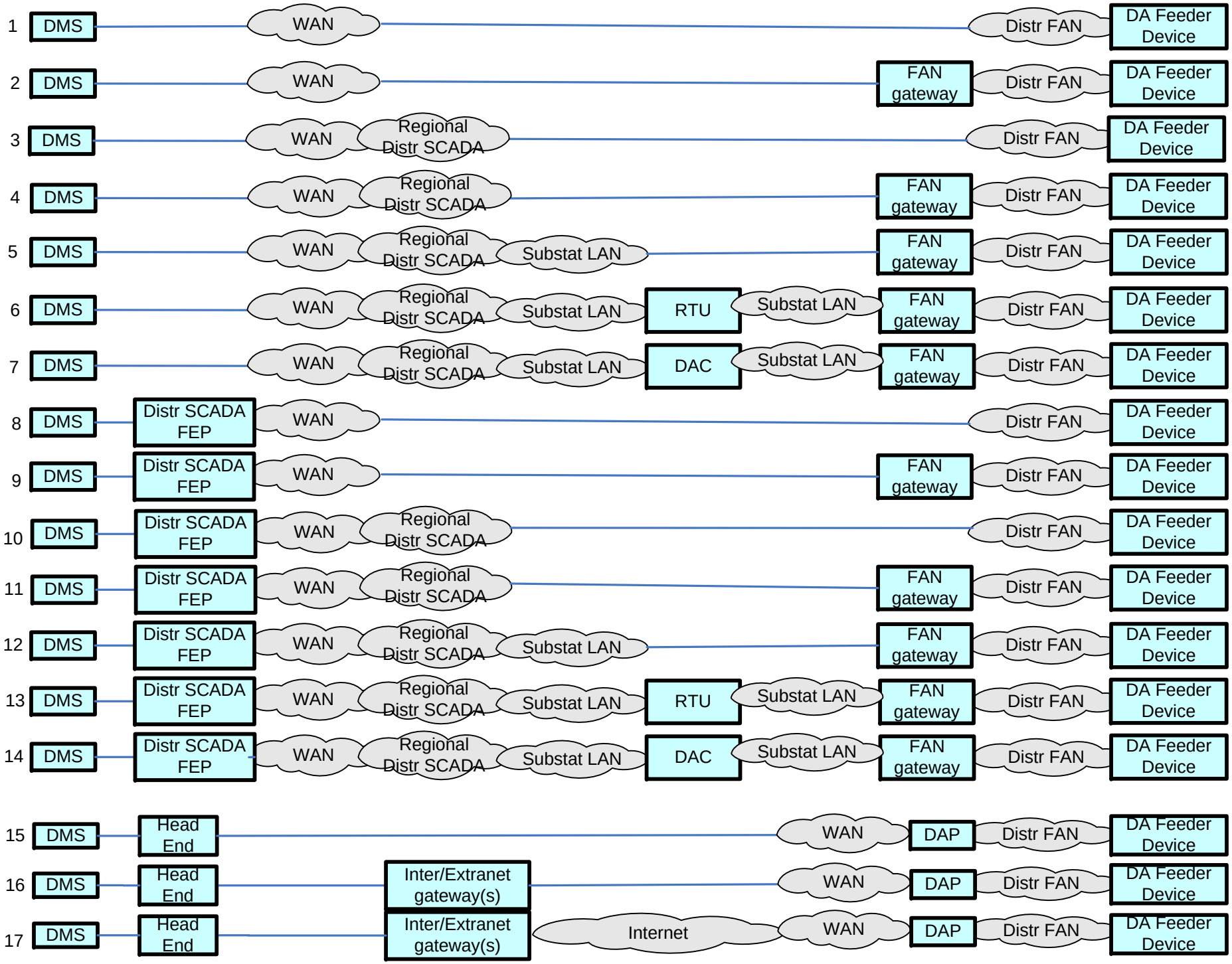
Utility CIS <-> IHD - Communication Path Options



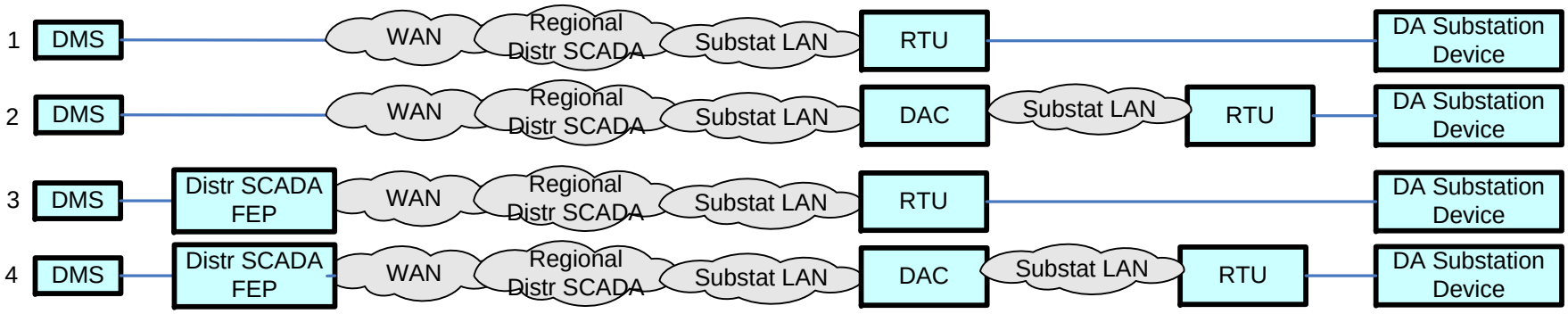
REP CIS <-> IHD - Communication Path Options



DMS <-> DA Feeder Devices - Communication Path Options

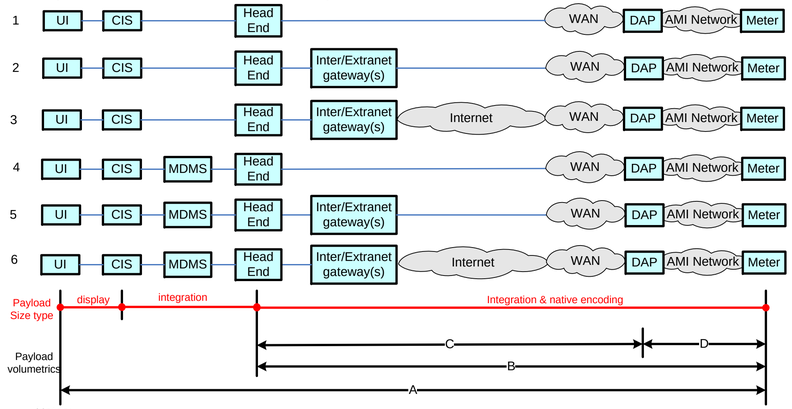


DMS <-> DA Substation Devices - Communication Path Options



Parent (Source Actor & Comsuming Actor) – Communication Path Scenarios – Partial List

Utility CIS <-> Meter - Communication Path Options



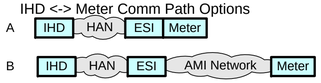
Notes:
1) Business volumetric requirements are being documented for the application payloads between specific actors for specific communications paths. Typically it is easier to document these volumetric requirements for the dataflows (ref boundary points above), in the following order: A, C, B or D.
2) Most volumetrics for dataflows for the same payload, MUST NOT be relaxed more than the their parents volumetrics requirements. E.G.: a) the latency for dataflow B, MUST be < A's; b) C + D latency MUST be < B's; HOWEVER, the total amount of payloads per dataflow will diminish as one traverses towards a singular endpoint, e.g. specific payload qtys for CIS & HeadEnd probably will be equal, HeadEnd = sum of DAPs; a specific DAP = sum of meters that the specific DAP has been designed/deployed to handle.
3) For the CIS <-> Meter comm paths, several payloads will concurrently traverse, each with different business volumetric reqmts. E.G.: a) on-demand meter reads, b) meter read of multiple interval data time blocks, c) service switch ops & status, d) demand resets, e) meter last-gasp, f) and this same common path used to pass HAN, prepay, load control, type messages to HAN devices

Meter Reading Use Case, functional, volumetric requirements – documentation needs

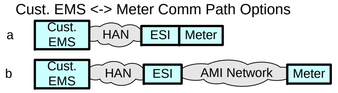
Documenting the various sets of "Meter Reading" use case Comm Path Options, results in the following:
(6) options for CIS <-> Meter (see CIS-Mtr page)
(2) options for IHD <-> Meter (this page)
(2) options for Cust. EMS <-> Meter (this page)

2) Each of the various meter read payloads have different volumetrics across the set of different source and consumer actors. The intent is to document up all of these volumetric requirements (ref notes on "CIS-MTR" page and communicate the dataflows visually.

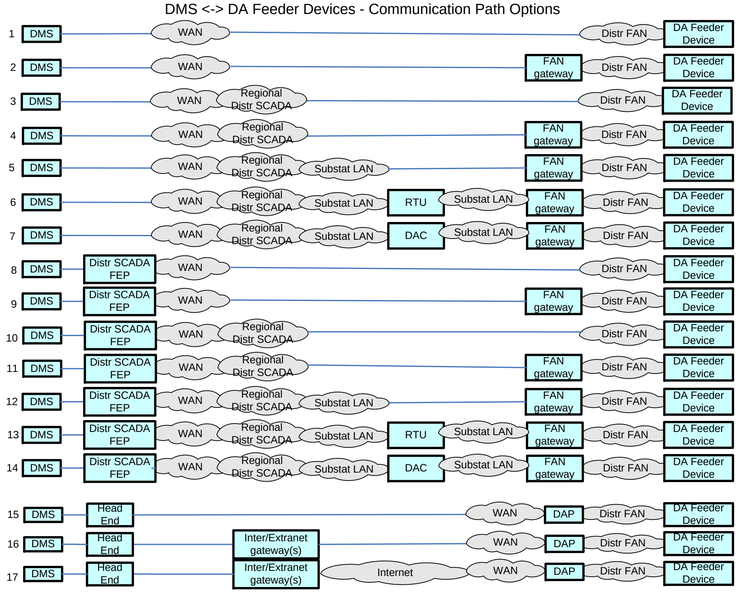
IHD <-> Meter Comm Path Options



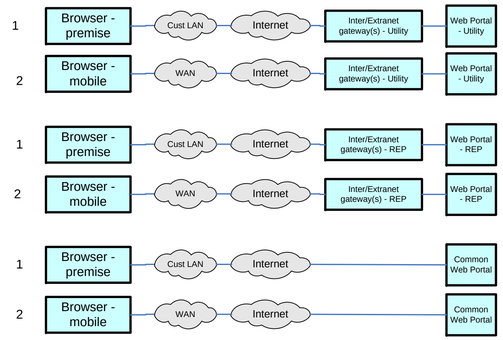
Cust. EMS <-> Meter Comm Path Options



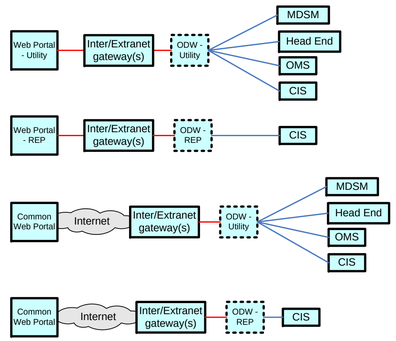
DMS <-> DA Feeder Devices - Communication Path Options



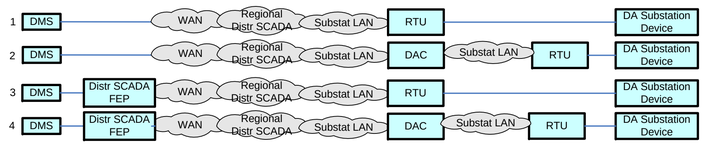
Cust <-> Web Portal - Communication Path Options



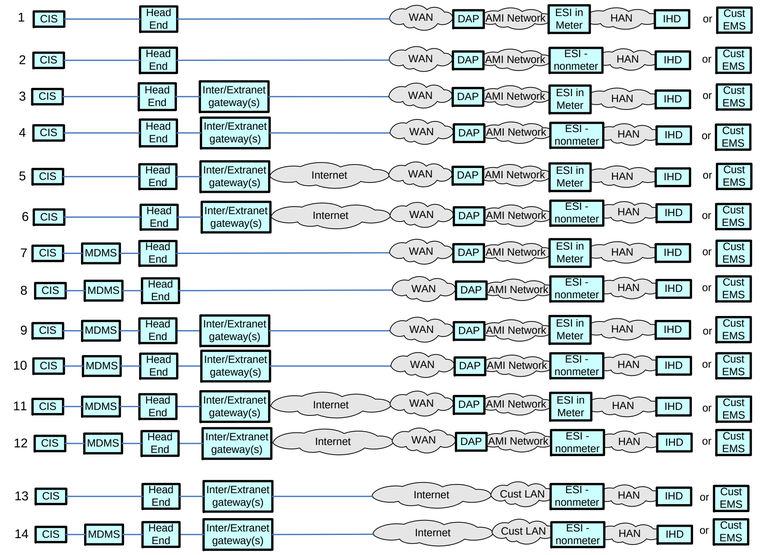
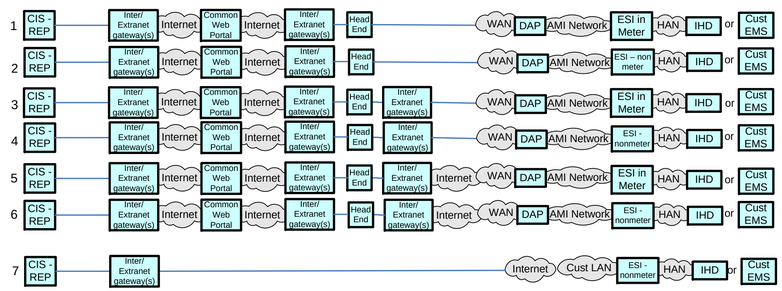
Web Portal <-> ODS - Communication Path Options



DMS <-> DA Substation Devices - Communication Path Options



Utility CIS <-> IHD - Communication Path Options



REP CIS <-> IHD - Communication Path Options