Use Case Scenario	Periodicity	Typical Period	Application Synchronized to Network	Data Delivery Guarantee Mode	Delivery Guarantee Value	Application Tolerant to Jitter	Tolerable Jitter Value	Applications Tolerant to packet loss	Tolerable packet loss Value	Application payload size variability	Payload Value (Bytes)	Data Criticality	Safety Critical Data
Function Specific													
Mission loading (file loading)	Aperiodic	N/A	No	Bandwidth	N/A	Yes	N/A	Yes	upper layer	Variable	100-MTU	Med	No
Video transfer (file transfer)	Aperiodic	N/A	No	Bandwidth	N/A	Yes	N/A	Yes	upper layer	Variable	100-MTU	Med	No
Image transfer (target image) – another file transfer	Aperiodic	N/A	No	Bandwidth	N/A	Yes	N/A	Yes	upper layer	Variable	100-MTU	Med	No
ARINC 661 (display graphics server)	Both	50 msec	No	Latency	150 msec	Yes	latency limit	Yes	2	Variable	8-MTU	High	Yes
Parametric Data for sensing (Military)	Periodic	10-20 ms	No	Latency	<10 msec	Yes	1 msec	Yes	1 frame	Fixed	100-300	High	Yes
Parametric Data for fly by wire system	Periodic	10-20ms	No	Latency	1-2 msec	No	< 1 usec	No	0	Fixed	100-300	High	Yes
Parametric Data for displays	periodic	10-20ms	No	Latency	<100 msec	Yes	latency limit	Yes	2-3 frame	Fixed	100-300	High	Yes
Audio Streaming	Periodic	20-50 ms	No	Latency	1 ms	Yes	latency limit	No	0	Fixed	100-500	Med	Yes
Text transfer (SMS, CPDLC)	Aperiodic	N/A	No	Latency	2 sec	Yes	latency limit	Yes	upper layer	Variable	8-MTU	Med	No
Sensor data (Asynchronous)	Periodic	5-100 ms	No	Latency	5-50 msec	Yes	period limit	Yes	1	Fixed	8-MTU	High	Yes
Inertial data (Attitude) (Synchronous)	Periodic	5-20 msec	Yes	Latency	5-50 msec	No	0	No	0	Fixed	<500B	High	Yes
Weapons release authorization	Aperiodic	N/A	No	Latency	< 1 msec	No	0	Yes	1 frame		< 100 Bytes	High	No
Weapons release commands (MIL-STD-1553)	Aperiodic	N/A	No	Latency	< 1 msec	No	0	No	0		<100 Bytes	High	Yes
ARINC 818 (Uncompressed real-time video)	Periodic	8/16/33 ms	No	Latency	< 1 frame					Fixed	2112	Med	No
Closed loop control (synchronous Sensor VMS - worst	Periodic	5-10 msec	Yes	Deadline	within cycle	No	< 1 usec	No	0	Fixed	<1000	High	Yes
Closed loop control (synchronous Sensor - commercial)	Periodic	5-10 msec	Yes	Deadline	within cycle	No	< 1 msec	No	0	Fixed	<1000	High	Yes
(Raw) I-Q data	Both		Yes	Latency		No	0	No	0			High	Yes
(Raw) Plot data	Both	20 msec	Yes	Latency	1 msec	No	0	No	0		<100B/Plot	High	Yes
AS6509 Flows													
FC-AE 1553 Traffic (command response) part of HS1760	Periodic	10 msec	No	Latency	< 25 usec	Yes	latency limit	No	0		<100 Bytes	High	Yes
FC-AE 1553 Traffic (command response) part of HS1760	Aperiodic	N/A											
FC-AE-1553 File Transfer													
FC-AV Traffic Flow (Video or sensor) part of HS1760	Periodic		No	Bandwidth	4 Gbps	Yes	N/A	Yes			1500	Low	No
FC2TSN Gateway Control Traffic (virtual pause frames)	Aperiodic	N/A	Yes	Latency	<1 msec	Yes	latency limit	Yes	design dep		100	High	Yes
Generic Groupings for Commercial Aircraft													
Ultra Latency Synchronized	Periodic	1-10ms	Yes	Latency	<1ms	No		Yes	1			High	
Ultra Latency Periodic	Periodic	1-10ms	No	Latency	<1ms	Yes	0.2 ms	Yes	1			High	
Low Latency Periodic	Periodic	10-50ms	No	Latency	50ms	Yes	1 ms	Yes	1-2		100-400	High	Yes
Medium Latency Periodic	Periodic	25-100 ms	No	Latency	50ms	Yes	10 ms	Yes	1-2		100-400	Med	Yes
High Latency Periodic	Periodic	100+ ms	No	Latency	50ms	Yes	100 ms	Yes	1-2		100-400	Med	Yes
No Latency Periodic	Periodic	128+ ms	No	None							600-800	Low	
Low Latency Aperiodic	Aperiodic	N/A	No	Latency	1ms						200-1518	High	Yes
Medium Latency Aperiodic	Aperiodic	N/A	No	Latency	10ms						200-1518	Med	Yes
High Latency Aperiodic	Aperiodic	N/A	No	Latency	100ms						200-1518	Low	Yes
Very High Latency Aperiodic	Aperiodic	N/A	No	Latency	1 s						1518	Low	Yes
No Latency Aperiodic	Aperiodic	N/A	No	None							1518	Low	Yes
Low Latency Streaming (Audio Streaming)	Aperiodic	N/A	No	Latency	1 ms	Yes	1 ms	No	0		<400	Low	Yes
Low Latency Streaming (Video Streaming)	Aperiodic	N/A	No	Latency	1 ms	Yes	1 ms	Yes			1518	Low	Yes
Aircraft health monit. unit/Data Recorder (prognostic)	Both	source rate	No	Bandwidth		Yes	N/A				100-1518	Med	No
Place Holder													
FibreChannel_1553_overTSN													
Electronic Flight Bag (EFB)													
Flight management (flight plans, waypoints)													
Mission Data Recorder													
Flight Data Recorder													