

Type of application + services	throughput p/s per session	use per month per user	Number of users	mobility (using while moving)	quality of experience (can there be a hiccup in the connection)	Availability/start-up time	timeliness/delay in delivering the data (high=no delay)	continuous operational availability (mission critical level)	peripherals for field units	necessary screen for field units	security (confidential + integrity)	group calls + broadcast	urgent to introduce
LOCATION DATA													
A(V)LS data to CCC (persons + vehicles positions)	low	high	high	high	medium	ready	high	high	modem/gps receiver/router	none	medium	no	now
A(V)LS data return	medium	high	medium	high	medium	ready	high	high	modem/gps receiver	graphic	high	yes, big groups	short (partly already in use)
MULTI MEDIA													
Video from/to CCC for following + intervention	high	low	medium (emergency vehicles)	high	low	ready when vehicle is ready	medium (has to be in line with speech; max 1 or 2 seconds)	high	modem/router	none by sending; graphics when receiving	low	yes, medium number	medium
Video for fixed observation	medium (high on hdd)	high	low	low	low	low (mostly enough time to switch on)	medium (has to be in line with speech; max 1 or 2 seconds)	medium	modem/router	none	high	yes, small number	medium (partly already in use)
Video on location (disaster or event area)	high	low	low	low	medium	Take along on ad hoc basis	medium	high; availability at Golden Hour essential	modem/router	graphic (if receiving also)	low	yes, medium number	now (partly already in use)
Video conferencing operations	medium (high on hdd)/priority needed	low	low	low	low	low	medium (has to be in line with speech; max 1 or 2 seconds)	low	special equipment	graphic	medium	yes, small number	long
Photo broadcast	medium	low	medium	high	low	ready	low	medium	PDA/Smartphone	graphic	medium	yes, big groups	now (partly already in use)
Photo to selected group (e.g. based on location)	medium	low	low	high	low	ready	low	medium	PDA/Smartphone	graphic	medium	yes, medium number	now (partly already in use)
OFFICE APPLICATIONS													
PDA PIMsync	medium	high	low	high	low	ready	low	low	PDA/Smartphone	graphic	high	no	medium (partly already in use)
Mobile workspace + (incl public internet)	medium	medium	low	high	low	ready	low	low	laptop	graphic	high	no	medium (partly already in use)

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<u>DOWNLOAD OPERATIONAL INFORMATION</u>													
Incident information download (text + images) from CCC to fieldunits + Netcentric working	medium	low	medium	low	high	ready	medium	high	PDA	graphic	medium	yes, medium number	medium (partly already in use for small messages)
ANPR update hit list	medium	medium	medium	medium	low	low (mostly enough time to switch on)	low	low	PDA/laptop	text	medium	yes, big groups	medium (partly already in use)
Download maps with included information to field units	medium	low	low	high	medium	medium	medium	high	PDA/laptop	graphic (if receiving also)	medium / high at confidential applications	yes	medium
Command & control information incl. task management + briefings	medium	medium (high when also operational task information)	high	high	medium	ready	high	high	PDA/laptop	text/graphic	medium	yes, medium number	short (partly already in use)
<u>UPLOAD OPERATIONAL INFORMATION</u>													
Incident information upload (text + images) to CCC + Netcentric working	medium	low	medium	low	high	ready	medium	high	PDA	graphic	medium	yes, small number	medium (partly already in use for small messages)
Status information + location	low	high	high	high	medium	ready	medium	medium (during incidents high)	radio/PDA/laptop	text	medium	no	now (partly already in use)
ANPR / speed control automatic upload to data base incl. pictures (temporaly 'fixed' camera's + from vehicles)	medium (high on busy roads)	high (fixed equipment is constantly on)	low, but growing	Fixed + high when using driving	low	ready	medium	fixed camera's low. If operational in cars medium	special equipment	graphic in cars	low	no	medium (partly already in use)
Forward scanned documents	medium	low	low	medium	low	low (mostly enough time to switch on)	low	medium	modem/router	graphic (if receiving also)	medium	no	medium
Reporting incl. pictures etc	medium	medium	medium	low	low	low (mostly enough time to switch on)	low	low	PDA/laptop	graphic	high	yes, small number	now (partly already in use)

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Upload maps + schemes with included information	medium	low	low	high	medium	medium	medium	high	modem/router	graphic (if receiving also)	medium / high at confidential applications	yes, small number	medium
Patient monitoring (ECC) to hospital	medium	medium	low	high	high	ready	medium	high	special equipment	not applicable	medium	no	short (partly already in use)
Monitoring status of security worker (drop detection, stress level, carbon monoxide etc)	low	low	Probably partially fire department	high	high	ready	high	ready	special equipment	not applicable	medium	no	medium
ONLINE DATA BASE ENQUIRY													
Operational data base search (own + external)	medium	high	high	high	high	ready	high	high	PDA	graphic	high	no	now (partly already in use)
Remote medical database services	medium	medium	low (mainly ambulance cars)	high	high	ready	high	high	modem/router	special equipment	high	no	medium (partly already in use)
ANPR checking number plate live	low	medium	medium	medium	low	low (mostly enough time to switch on)	medium	medium	PDA	text	medium	no	now (partly already in use)
Biometric (eg fingerprint) check	low	low	low	low; high on the train	low	ready	low	medium	PDA-like device	hit/no hit	low	no	now (partly already in use)
Cargo data	low	low	medium	high	high	ready	medium	high	PDA	text	medium	no	medium
Crash Recovery System (asking information on the spot)	medium	low	low (mainly fire trucks)	high	high	ready	medium	high	PDA	graphic	low	no	short (partly already in use)
Crash Recovery System (update to vehicles from data base)	medium	low	low (mainly fire trucks)	medium (fire truck in use can receive a little later)	high	ready	low	high	PDA	graphic	low	no	short
MISCELLANEOUS													
Software update online	medium	low	high	medium (it has to be certain everyone receives, but a bit later is acceptable)	low	low: it has to be certain everyone receives, but a bit later is acceptable	low	low	not applicable	not applicable	high	yes, big groups	medium
GIS maps updates	medium	low	medium	medium (it has to be certain everyone receives, but a bit later is acceptable)	low	low: it has to be certain everyone receives, but a bit later is acceptable	low	low	not applicable	not applicable	medium	yes, big groups	medium

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Automatic telemetrics incl remote controlled devices + information from static sensors	low	low	medium	none at permanent static sensors; high with applications in/on cars	medium	ready	medium for control processes; low while gathering information; high at time-critical applications	high	modem	none	depends on kind of sensor application	no	medium (partly already in use)
Hotspot on disaster or event area (e.g in mobile communication centre)	extrem high	low	medium	low	high	have to be installed	high	high	special equipment	not applicable	medium	yes	medium
Front office - back office applicaties	low (medium if graphics is included)	high	high	high	low	ready	low	medium	PDA	graphic	medium	no	medium
Under water communication scuba diver	low	low	low	low	high	ready	high	high	special equipment	text	medium	yes	future
Alarming / paging	low	medium	medium	medium	medium	ready	high	high	pager	text	medium	yes, medium number	now (partly already in use)
Traffic management system: information on road situations to units	low	low	low	high	medium	ready	high	high	PDA/Smartphone	graphic	medium	no	medium
Radiobearing tracking or special agents operations	medium	low	low	high	high	ready	high	high	special equipment	graphic	high	yes, small number	now (partly already in use)
IMSI Catcher information to units	medium	low	low	high	medium	ready	high	high	special equipment	graphic	high	yes	now (partly already in use)
Connectivity of abroad assigned force to local ccc	medium	low	low	medium	medium	ready	high	high	SAT COM	graphic	high	no	short

low:<10x low:< 20%

medium:10-30x medium: 20-70%

high:>30x high:>70%

BxCxD=
network
capacity
indication

short: <2 years

medium: 2-5
years

long: >5 years

Most important parameter for this application

Second important parameter for this application

Third important parameter for this application