**Proposal 1.A**: The work scope of Type-II codebook refinement for CJT mTRP includes refinement of the following codebooks:

* + Rel-16 eType-II regular codebook
	+ Rel-17 FeType-II port selection (PS) codebook

FFS: Whether to prioritize/down-select from the two

**Proposal 1.B**: The work scope of Type-II codebook refinement for CJT mTRP includes the support of NTRP=1, 2, 3, and 4 cooperating TRPs

* + FFS: Signaling of NTRP, e.g. higher-layer (RRC) vs. dynamic
	+ FFS: Determination of NTRP, e.g. NW-configured vs UE-selected

**Proposal 1.C**: The work scope of Type-II codebook refinement for CJT mTRP includes the following NZP CSI-RS (CMR) setups in Resource Setting associated with Rel-18 Type-II codebook for CJT

* Opt1: 1 NZP CSI-RS resource, max # ports = 32
* Opt2: *K*>1 NZP CSI-RS resources with the same number of ports (representing *K* TRPs)
	+ FFS: The maximum number of ports per resource, and the total number of ports across all resources

**Proposal 1.D**: The work scope of Type-II codebook refinement for CJT mTRP includes down-selecting at least one or merging from the following codebook structures:

* Alt1A. Per-TRP (port-group or resource) SD/FD basis selection + relative co-phasing/amplitude (including WB and/or SB). Example formulation:

$$\left[\begin{matrix}(a\_{1}p\_{1})×W\_{1,1}\tilde{W}\_{2,1}W\_{f,1}^{H}\\\vdots \\(a\_{N\_{TRP}}p\_{N\_{TRP}})×W\_{1,N\_{TRP}}\tilde{W}\_{2,N\_{TRP}}W\_{f,N\_{TRP}}^{H}\end{matrix}\right]$$

* + $a\_{r}$ = co-amplitude and
	+ $p\_{r}$ = co-phase
	+ Including special case of $a\_{r}=p\_{r}=1$ (no co-scaling)
* Alt1B. Per-TRP (port-group or resource) joint SD-FD basis selection + relative co-phasing/amplitude (including WB and/or SB). Example formulation:

$$\left[\begin{matrix}(a\_{1}p\_{1})×W\_{SF,1}\tilde{W}\_{2,1}\\\vdots \\(a\_{N\_{TRP}}p\_{N\_{TRP}})×W\_{SF,N\_{TRP}}\tilde{W}\_{2,N\_{TRP}}\end{matrix}\right]$$

* + $a\_{r}$ = co-amplitude and
	+ $p\_{r}$ = co-phase
	+ Including special case of $a\_{r}=p\_{r}=1$ (no co-scaling)
* Alt2. Per-TRP (port-group or resource) SD basis selection and joint (across *N* TRPs) FD basis selection. Example formulation:

$$\left[\begin{matrix}\begin{matrix}W\_{1,1}&0\\0&\ddots \end{matrix}&\begin{matrix}0&0\\0&0\end{matrix}\\\begin{matrix}0&0\\0&0\end{matrix}&W\_{1,N\_{TRP}}\end{matrix}\right]\tilde{W}\_{2}W\_{f}^{H}$$

**Proposal 2.A**: The work scope of Type-II codebook refinement for high/medium velocities includes refinement of the following codebooks, based on a common design framework:

* + Rel-16 eType-II regular codebook
	+ Rel-17 FeType-II port selection (PS) codebook

FFS: Whether to prioritize/down-select from the two

**Proposal 2.B**: The work scope of Type-II codebook refinement for high/medium velocities includes down selection from the following codebook structures (for discussion purposes):

* Alt1. Time-domain basis,
	+ Alt1A: Time-domain basis commonly selected for all SD/FD bases, e.g.$\left(W\_{f}^{\*}⨂W\_{1}\right)W\_{2}W\_{t}^{H}$
	+ Alt1B: Time-domain basis independently selected for different SD/FD bases
* Alt2. Doppler-domain basis
	+ Alt2A: Doppler-domain basis commonly selected for all SD/FD bases, e.g. $W\_{1}\tilde{W}\_{2}(W\_{f}⨂W\_{d})^{H}$
	+ Alt2B: Doppler-domain basis independently selected for different SD/FD bases
	+ Note that $W\_{d}$ may be the identity as a special case
* Alt3. Reuse Rel-16/17 (F)eType-II codebook with multiple $W\_{2}$ and a single $W\_{1}$ and $W\_{f}$ report.

**Proposal 2.C**: The work scope of Type-II codebook refinement for high/medium velocities includes down selection from the following Doppler-/time-domain basis waveforms for codebook design:

* Alt1. Orthogonal DFT (with or without rotation factor)
* Alt2. Oversampled DFT
* Alt3. Other waveforms, e.g. DCT, Slepian
* Alt4. Identity (i.e. no Doppler-/time-domain compression)

**Proposal 2.D**: The work scope of Type-II codebook refinement for high/medium velocities includes the following CSI measurement and calculation aspects:

* Potential refinement on Resource setting configuration on CSI-RS (for CSI and/or tracking) for measuring a burst of CSI-RS, including the applicable time-domain behaviors
* Whether/how UE-side or gNB-side prediction is assumed for CQI/PMI/RI calculation
* Potential enhancements on CQI definition and calculation procedure in relation to the PMI of Rel-18 Type-II codebook for high/medium velocities

**Proposal 3.A**: The work scope of TRS-based TDCP reporting focuses on the following use cases for evaluation purposes:

* Targeting medium and high UE speed, e.g. 10-120km/h as well as HST speed
* Aiding gNB to determine
	+ CSI reporting configuration and CSI-RS resource configuration parameters,
	+ Precoding scheme, using one of the CSI feedback based precoding schemes or an UL-SRS reciprocity based precoding scheme
* Aiding gNB-side CSI prediction

**Proposal 3.B**: The work scope of TRS-based TDCP reporting includes down selection from the following TDCP reporting formats:

* Alt1. Stand-alone reporting (no inter-dependence with other CSI/UCI parameters)
	+ Note: This doesn’t preclude multiplexing with other UCI parameters (e.g. CSI, ACK, SR, …) on PUCCH/PUSCH, if applicable
* Alt2. Inter-dependent and reported with other CSI parameter(s)

**Proposal 3.C**: The work scope of TRS-based TDCP reporting includes down selection from the following TDCP parameters:

* Alt1. Doppler shift
* Alt2. Doppler spread
* Alt3. Cross-correlation in time
* Alt4. Relative Doppler shift of a number of peaks in CIR
* Alt5: CSI-RS resource and/or CSI reporting setting configuration assistance