$$
\begin{aligned}
&\# \text{ adjacency for robot } i \in \{1, 2\} \\
&\square(\bigcirc \varphi^{c}_{i_{r_1}} \Rightarrow \bigcirc \varphi_{i_{r_1}} \vee \bigcirc \varphi_{i_{r_2}} \vee \bigcirc \varphi_{i_{r_3}}) \\
&\wedge \square(\bigcirc \varphi^{c}_{i_{r_2}} \Rightarrow \bigcirc \varphi_{i_{r_1}} \vee \bigcirc \varphi_{i_{r_2}} \vee \bigcirc \varphi_{i_{r_4}}) \\
&\wedge \square(\bigcirc \varphi^{c}_{i_{r_3}} \Rightarrow \bigcirc \varphi_{i_{r_1}} \vee \bigcirc \varphi_{i_{r_3}} \vee \bigcirc \varphi_{i_{r_3}}) \\
&\wedge \square(\bigcirc \varphi^{c}_{i_{r_4}} \Rightarrow \bigcirc \varphi_{i_{r_2}} \vee \bigcirc \varphi_{i_{r_3}} \vee \bigcirc \varphi_{i_{r_4}})
\end{aligned}
$$